

Appendix I

Personality-Intelligence Relations

Table S197. Meta-analytic results describing cognitive abilities' relation with neuroticism.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD$\hat{\rho}$</i>	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	571	403,087	-.07	.09	-.08	.09	-.20	.04	-.09	-.07
Fluid	165	120,548	-.08	.09	-.10	.10	-.23	.03	-.12	-.09
Induction	429	424,528	-.06	.07	-.08	.08	-.18	.02	-.09	-.07
General Sequential Reasoning	83	95,196	-.07	.06	-.09	.07	-.18	.00	-.10	-.08
Quantitative Reasoning	132	201,438	-.06	.07	-.08	.08	-.18	.02	-.09	-.06
Memory	9	9,690	-.07	.06	-.09	.07	-.18	.01	-.13	-.04
Long Term Storage and Retrieval	16	16,718	-.06	.04	-.08	.04	-.13	-.03	-.10	-.05
Learning Efficiency	10	3,231	-.04	.08	-.05	.07	-.14	.05	-.10	.00
Associative Memory	16	4,736	-.05	.08	-.06	.06	-.15	.02	-.10	-.02
Meaningful Memory	8	4,184	-.04	.08	-.05	.09	-.16	.07	-.11	.02
Episodic Memory	6	3,672	-.06	.06	-.08	.05	-.15	-.01	-.13	-.03
Free Recall Memory	30	47,092	-.07	.06	-.09	.07	-.18	-.01	-.11	-.07
Long Term Visual Memory	6	1,807	-.02	.05	-.03	.00	-.03	-.03	-.07	.01
Retrieval Fluency	20	3,842	-.03	.09	-.03	.06	-.11	.04	-.08	.01
Ideational Fluency	44	25,939	-.06	.06	-.07	.06	-.15	.00	-.09	-.05
Associational Fluency	17	5,043	-.05	.04	-.06	.00	-.06	-.06	-.09	-.04
Expressional Fluency	11	2,045	-.06	.08	-.08	.04	-.14	-.02	-.13	-.03
Sensitivity to Problems and Alt. Solutions	4	554	-.07	.03	-.09	.00	-.09	-.09	-.12	-.06
Originality and Creativity	35	5,687	-.02	.12	-.03	.11	-.17	.11	-.07	.01
Naming Facility and Speed of Lexical Access	26	32,777	-.06	.04	-.09	.04	-.14	-.04	-.11	-.07
Word Fluency	48	35,285	-.04	.05	-.05	.04	-.11	.00	-.07	-.04

Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	88	71,535	-.06	.06	-.07	.06	-.16	.01	-.09	-.06
Working Memory Capacity	38	18,631	-.04	.07	-.05	.07	-.13	.04	-.07	-.03
Attentional Executive Control	9	7,193	-.05	.11	-.06	.13	-.22	.11	-.13	.02
Visual Processing	34	14,314	-.04	.08	-.05	.08	-.16	.06	-.08	-.02
Visualization	119	136,320	-.08	.05	-.10	.05	-.16	-.03	-.11	-.09
Closure Speed	38	14,254	-.08	.07	-.10	.05	-.17	-.04	-.13	-.08
Flexibility of Closure	56	82,954	-.07	.04	-.08	.03	-.12	-.04	-.09	-.07
Spatial Scanning	13	10,851	-.09	.04	-.11	.03	-.15	-.07	-.13	-.08
Perceptual Illusions	5	1,218	-.07	.04	-.08	.00	-.08	-.08	-.11	-.04
Visual Memory	17	9,577	-.07	.09	-.09	.10	-.23	.04	-.14	-.04
Auditory Processing	3	716	-.04	.07	-.06	.01	-.08	-.04	-.14	.02
Processing Speed	8	1,259	-.14	.18	-.17	.19	-.41	.08	-.29	-.04
Perceptual Speed	97	46,535	-.04	.08	-.05	.08	-.15	.05	-.06	-.03
Scanning	42	100,600	-.09	.05	-.11	.06	-.19	-.04	-.13	-.09
Pattern Recognition	6	7,884	-.09	.05	-.11	.04	-.16	-.05	-.14	-.07
Number Facility	45	17,745	-.08	.07	-.10	.05	-.16	-.03	-.12	-.08
Reaction and Decision Speed	1	4,623	.03	-	.04	-	-	-	.01	.07
Simple Reaction Time	18	16,201	.00	.09	.00	.11	-.13	.14	-.04	.05
Choice Reaction Time	13	15,709	-.04	.06	-.05	.07	-.14	.04	-.08	-.01
Decision Time	2	12,895	.06	.02	.08	.02	.05	.10	.05	.11
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	2	249	-.05	.04	-.06	.00	-.06	-.06	-.11	-.01
Inspection Time	6	2,302	-.04	.06	-.05	.03	-.10	-.01	-.10	-.01
Mental Comparison Speed	4	303	-.06	.18	-.08	.18	-.31	.15	-.27	.11
Acquired Knowledge	16	11,563	-.09	.06	-.10	.06	-.19	-.02	-.14	-.07
Quantitative Ability	13	5,176	-.15	.08	-.18	.08	-.28	-.08	-.23	-.14
Mathematics Knowledge	12	79,615	.05	.04	.06	.04	.01	.12	.04	.09
Mathematics Achievement	9	17,637	-.04	.05	-.05	.05	-.11	.02	-.08	-.01
Verbal Ability	63	50,216	-.07	.09	-.08	.10	-.21	.04	-.11	-.06
Reading and Writing	5	753	-.03	.06	-.04	.00	-.04	-.04	-.09	.02
Reading Comprehension	48	13,570	-.09	.10	-.12	.10	-.25	.01	-.15	-.09

Reading Decoding	5	4,160	-.06	.09	-.07	.09	-.19	.05	-.14	.01
Reading Speed	8	1,682	-.02	.12	-.02	.11	-.17	.13	-.10	.06
Native Language Usage	17	3,212	-.04	.07	-.05	.00	-.05	-.05	-.08	-.01
Writing Ability	2	115	.00	.00	-.01	.00	-.01	-.01	-.01	.00
Spelling Ability	20	3,242	-.06	.09	-.07	.05	-.13	-.01	-.12	-.03
Comprehension Knowledge	40	9,129	-.14	.11	-.18	.10	-.31	-.05	-.21	-.14
General Verbal Information	61	20,165	-.15	.09	-.18	.09	-.29	-.07	-.20	-.16
Language Development	7	3,917	-.05	.07	-.06	.07	-.15	.02	-.12	-.01
Lexical Knowledge	172	136,728	-.07	.08	-.09	.09	-.20	.02	-.10	-.08
Listening Ability	2	601	-.12	.09	-.16	.10	-.29	-.04	-.31	-.02
Domain Specific Knowledge	5	857	-.07	.08	-.12	.03	-.16	-.07	-.21	-.02
Foreign Language Proficiency	6	2,189	-.10	.10	-.12	.11	-.26	.02	-.20	-.04
Arts and Humanities	3	1,570	-.03	.11	-.04	.16	-.25	.16	-.21	.12
Behavioral Content Knowledge	9	2,305	-.05	.09	-.10	.12	-.25	.05	-.20	.00
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	4	11,380	-.02	.05	-.03	.06	-.10	.04	-.08	.02
Military & Police	4	681	-.09	.11	-.12	.10	-.25	.01	-.23	.00
Realistic Knowledge	1	178	-.14	-	-.20	-	-	-	-.37	-.02
General Science Knowledge	9	74,401	.00	.04	.01	.05	-.06	.07	-.02	.04
Life Sciences Knowledge	14	10,714	-.04	.04	-.05	.03	-.09	-.01	-.08	-.02
Mechanical Knowledge	20	2,281	-.10	.09	-.13	.00	-.13	-.13	-.17	-.09
Natural Sciences Knowledge	2	1,973	-.01	.12	-.01	.15	-.20	.18	-.19	.17
Physical Sciences Knowledge	10	81,569	-.10	.02	-.13	.01	-.14	-.12	-.14	-.12
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	4	6,535	-.05	.02	-.06	.00	-.06	-.06	-.09	-.04
Social Studies Knowledge	9	3,818	.00	.08	.00	.08	-.11	.10	-.06	.05
Psychomotor Ability	5	5,418	.06	.10	.08	.12	-.07	.24	-.01	.17
Aiming	3	359	-.05	.04	-.06	.00	-.06	-.06	-.11	-.02
Finger Dexterity	4	5,055	-.13	.03	-.17	.01	-.18	-.15	-.20	-.13
Manual Dexterity	5	943	-.05	.09	-.06	.07	-.16	.03	-.15	.02
Psychomotor Speed	3	5,043	.07	.06	.09	.06	.00	.17	.02	.15
Writing Speed	2	379	.03	.01	.04	.00	.04	.04	.02	.06
Compounds										

Acquired Knowledge & Auditory Processing	2	322	-.11	.19	-.14	.21	-.41	.14	-.41	.14
Acquired Knowledge & Memory	1	185	-.07	-	-.08	-	-	-	-.23	.06
Acquired Knowledge & Processing Speed	2	274	-.13	.09	-.16	.03	-.20	-.12	-.28	-.03
Acquired Knowledge & Visual Processing	7	76,183	-.09	.03	-.11	.04	-.16	-.06	-.13	-.08
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	7	8,763	-.02	.02	-.02	.00	-.02	-.02	-.04	-.01
Fluid & Processing Speed	13	6,207	-.03	.11	-.03	.12	-.19	.12	-.09	.03
Fluid & Visual Processing	26	17,654	-.06	.11	-.07	.13	-.23	.09	-.12	-.03
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	6	2,111	-.04	.03	-.05	.00	-.05	-.05	-.08	-.03
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S198. Meta-analytic results describing cognitive abilities’ relations with neuroticism-withdrawal.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	32	19,386	-.12	.08	-.15	.09	-.26	-.03	-.18	-.12
Fluid	2	760	-.06	.12	-.08	.14	-.26	.11	-.26	.11
Induction	21	17,087	-.10	.05	-.13	.05	-.20	-.07	-.16	-.11
General Sequential Reasoning	1	1,529	-.13	-	-.16	-	-	-	-.21	-.11
Quantitative Reasoning	3	7,446	-.12	.00	-.15	.00	-.15	-.15	-.16	-.15
Memory	1	2,050	-.07	-	-.08	-	-	-	-.13	-.04
Long Term Storage and Retrieval	2	3,501	-.05	.01	-.07	.00	-.07	-.07	-.08	-.06
Learning Efficiency	1	153	.02	-	.03	-	-	-	-.15	.20
Associative Memory	-	-	-	-	-	-	-	-	-	-
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	3	7,956	-.13	.05	-.16	.06	-.24	-.09	-.22	-.10
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	2	1,499	-.13	.00	-.17	.00	-.17	-.17	-.17	-.17
Ideational Fluency	6	4,739	-.11	.05	-.14	.04	-.19	-.09	-.18	-.10
Associational Fluency	1	2,230	-.08	-	-.10	-	-	-	-.15	-.06
Expressional Fluency	-	-	-	-	-	-	-	-	-	-
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	5	790	-.09	.07	-.12	.00	-.12	-.12	-.19	-.05
Naming Facility and Speed of Lexical Access	7	9,372	-.07	.04	-.10	.04	-.15	-.04	-.13	-.06
Word Fluency	2	6,179	-.12	.05	-.16	.05	-.23	-.09	-.23	-.09
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	8	12,475	-.10	.07	-.12	.08	-.22	-.02	-.17	-.07
Working Memory Capacity	11	11,494	-.11	.04	-.14	.03	-.17	-.10	-.16	-.11
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	-	-	-	-	-	-	-	-	-	-
Visualization	15	7,285	-.02	.05	-.03	.01	-.05	-.01	-.05	.00

Closure Speed	-	-	-	-	-	-	-	-	-	-
Flexibility of Closure	-	-	-	-	-	-	-	-	-	-
Spatial Scanning	-	-	-	-	-	-	-	-	-	-
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	-	-	-	-	-	-	-	-	-	-
Perceptual Speed	4	285	-.09	.20	-.11	.20	-.36	.15	-.31	.10
Scanning	1	1,991	-.03	-	-.04	-	-	-	-.09	.01
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	-	-	-	-	-	-	-	-	-	-
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	11	6,664	-.06	.04	-.08	.00	-.08	-.08	-.11	-.05
Choice Reaction Time	13	11,555	-.07	.05	-.09	.04	-.13	-.04	-.11	-.06
Decision Time	5	5,253	-.10	.05	-.13	.04	-.18	-.08	-.18	-.09
Movement Time	5	5,253	-.10	.04	-.13	.03	-.17	-.09	-.17	-.09
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	3	238	-.14	.18	-.18	.18	-.41	.05	-.40	.04
Acquired Knowledge	-	-	-	-	-	-	-	-	-	-
Quantitative Ability	-	-	-	-	-	-	-	-	-	-
Mathematics Knowledge	1	47	.30	-	.37	-	-	-	.10	.64
Mathematics Achievement	-	-	-	-	-	-	-	-	-	-
Verbal Ability	2	503	.00	.09	.00	.08	-.09	.10	-.12	.13
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	-	-	-	-	-	-	-	-	-	-
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	1	47	.29	-	.39	-	-	-	.09	.68
Writing Ability	-	-	-	-	-	-	-	-	-	-
Spelling Ability	1	47	.05	-	.07	-	-	-	-.25	.39
Comprehension Knowledge	1	63	-.15	-	-.18	-	-	-	-.44	.07

General Verbal Information	-	-	-	-	-	-	-	-	-	-
Language Development	-	-	-	-	-	-	-	-	-	-
Lexical Knowledge	6	2,010	-.12	.06	-.15	.03	-.19	-.12	-.20	-.10
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	1	542	.02	-	.03	-	-	-	-.09	.14
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	-	-	-	-	-	-	-	-	-	-
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	-	-	-	-	-	-	-	-	-	-
Life Sciences Knowledge	11	8,839	-.04	.03	-.06	.00	-.06	-.06	-.08	-.04
Mechanical Knowledge	1	47	.16	-	.20	-	-	-	-.09	.50
Natural Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Physical Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	-	-	-	-	-	-	-	-	-	-
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	1	240	-.13	-	-.16	-	-	-	-.28	-.03
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knwl., Psychomotor Speed, & Vis. Proc. Fluid & Memory	-	-	-	-	-	-	-	-	-	-

Fluid & Processing Speed	-	-	-	-	-	-	-	-	-	-
Fluid & Visual Processing	4	427	-.06	.05	-.08	.00	-.08	-.08	-.13	-.02
Memory & Processing Speed	1	1,993	-.05	-	-.06	-	-	-	-.10	-.01
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

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Table S199. Meta-analytic results describing cognitive abilities’ relations with neuroticism-volatility.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	18	9,386	-.05	.08	-.06	.08	-.17	.05	-.10	-.02
Fluid	2	1,107	-.18	.10	-.23	.12	-.38	-.08	-.38	-.07
Induction	14	8,502	-.02	.03	-.02	.00	-.02	-.02	-.04	-.01
General Sequential Reasoning	2	1,107	-.23	.06	-.30	.05	-.37	-.23	-.39	-.21
Quantitative Reasoning	1	1,309	.05	-	.06	-	-	-	.01	.12
Memory	1	545	-.04	-	-.06	-	-	-	-.15	.03
Long Term Storage and Retrieval	1	2,336	-.02	-	-.03	-	-	-	-.08	.01
Learning Efficiency	1	153	-.02	-	-.02	-	-	-	-.19	.15
Associative Memory	-	-	-	-	-	-	-	-	-	-
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	2	2,620	-.07	.02	-.09	.00	-.09	-.09	-.12	-.07
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	-	-	-	-	-	-	-	-	-	-
Ideational Fluency	4	2,841	-.05	.03	-.06	.00	-.06	-.06	-.09	-.03
Associational Fluency	1	2,342	-.06	-	-.08	-	-	-	-.12	-.04
Expressional Fluency	-	-	-	-	-	-	-	-	-	-
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	4	783	.01	.08	.01	.05	-.05	.08	-.08	.10
Naming Facility and Speed of Lexical Access	1	2,350	-.07	-	-.10	-	-	-	-.15	-.05
Word Fluency	1	2,342	-.06	-	-.07	-	-	-	-.12	-.03
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	2	2,621	-.05	.00	-.07	.00	-.07	-.07	-.07	-.06
Working Memory Capacity	5	697	-.03	.12	-.04	.11	-.18	.10	-.15	.07
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	-	-	-	-	-	-	-	-	-	-
Visualization	4	425	-.11	.12	-.14	.09	-.25	-.03	-.26	-.01

Closure Speed	-	-	-	-	-	-	-	-	-	-
Flexibility of Closure	-	-	-	-	-	-	-	-	-	-
Spatial Scanning	-	-	-	-	-	-	-	-	-	-
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	2	1,854	-.05	.01	-.06	.00	-.06	-.06	-.07	-.05
Perceptual Speed	4	538	-.11	.08	-.14	.00	-.14	-.14	-.22	-.06
Scanning	1	91	-.03	-	-.04	-	-	-	-.18	.27
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	-	-	-	-	-	-	-	-	-	-
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	4	329	-.09	.17	-.12	.18	-.34	.11	-.31	.07
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	3	238	-.09	.23	-.12	.26	-.45	.21	-.40	.16
Acquired Knowledge	-	-	-	-	-	-	-	-	-	-
Quantitative Ability	-	-	-	-	-	-	-	-	-	-
Mathematics Knowledge	-	-	-	-	-	-	-	-	-	-
Mathematics Achievement	-	-	-	-	-	-	-	-	-	-
Verbal Ability	1	200	.09	-	.11	-	-	-	-.03	.25
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	1	1,309	-.01	-	-.02	-	-	-	-.08	.04
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	1	1,309	.04	-	.05	-	-	-	-.01	.11
Writing Ability	-	-	-	-	-	-	-	-	-	-
Spelling Ability	-	-	-	-	-	-	-	-	-	-
Comprehension Knowledge	-	-	-	-	-	-	-	-	-	-

General Verbal Information	-	-	-	-	-	-	-	-	-	-
Language Development	-	-	-	-	-	-	-	-	-	-
Lexical Knowledge	5	1,672	.03	.07	.04	.06	-.04	.11	-.03	.10
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	-	-	-	-	-	-	-	-	-	-
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	-	-	-	-	-	-	-	-	-	-
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	-	-	-	-	-	-	-	-	-	-
Life Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Mechanical Knowledge	1	1,730	.05	-	.07	-	-	-	.02	.12
Natural Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Physical Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	-	-	-	-	-	-	-	-	-	-
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	-	-	-	-	-	-	-	-	-	-

Fluid & Processing Speed	-	-	-	-	-	-	-	-	-	-
Fluid & Visual Processing	4	427	-.19	.04	-.24	.00	-.24	-.24	-.28	-.20
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S200. Meta-analytic results describing cognitive abilities’ relations with neuroticism--negative affect.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	18	6,453	-.14	.13	-.16	.14	-.35	.02	-.22	-.10
Fluid	3	493	-.05	.09	-.07	.05	-.13	.00	-.17	.04
Induction	11	2,218	-.11	.09	-.14	.08	-.23	-.04	-.20	-.08
General Sequential Reasoning	3	482	-.35	.09	-.45	.06	-.53	-.37	-.56	-.34
Quantitative Reasoning	4	2,554	-.09	.05	-.12	.04	-.17	-.06	-.17	-.06
Memory	-	-	-	-	-	-	-	-	-	-
Long Term Storage and Retrieval	-	-	-	-	-	-	-	-	-	-
Learning Efficiency	-	-	-	-	-	-	-	-	-	-
Associative Memory	-	-	-	-	-	-	-	-	-	-
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	1	1,493	-.08	-	-.10	-	-	-	-.15	-.04
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	1	972	-.08	-	-.11	-	-	-	-.18	-.04
Ideational Fluency	2	293	.08	.17	.11	.20	-.15	.36	-.15	.37
Associational Fluency	-	-	-	-	-	-	-	-	-	-
Expressional Fluency	-	-	-	-	-	-	-	-	-	-
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	2	293	.07	.12	.10	.11	-.04	.23	-.08	.27
Naming Facility and Speed of Lexical Access	1	1,018	-.03	-	-.04	-	-	-	-.11	.04
Word Fluency	-	-	-	-	-	-	-	-	-	-
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	1	1,493	-.09	-	-.11	-	-	-	-.16	-.06
Working Memory Capacity	1	1,419	-.06	-	-.07	-	-	-	-.13	-.02
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	2	293	-.03	.02	-.04	.00	-.04	-.04	-.07	-.01
Visualization	-	-	-	-	-	-	-	-	-	-

Closure Speed	-	-	-	-	-	-	-	-	-	-
Flexibility of Closure	2	293	.09	.05	.12	.00	.12	.12	.05	.19
Spatial Scanning	-	-	-	-	-	-	-	-	-	-
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	-	-	-	-	-	-	-	-	-	-
Perceptual Speed	3	481	-.43	.04	-.53	.00	-.53	-.53	-.58	-.48
Scanning	2	293	.02	.03	.03	.00	.03	.03	-.03	.08
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	-	-	-	-	-	-	-	-	-	-
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	-	-	-	-	-	-	-	-	-	-
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge	-	-	-	-	-	-	-	-	-	-
Quantitative Ability	-	-	-	-	-	-	-	-	-	-
Mathematics Knowledge	-	-	-	-	-	-	-	-	-	-
Mathematics Achievement	-	-	-	-	-	-	-	-	-	-
Verbal Ability	-	-	-	-	-	-	-	-	-	-
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	1	363	-.09	-	-.11	-	-	-	-.22	.00
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	-	-	-	-	-	-	-	-	-	-
Writing Ability	-	-	-	-	-	-	-	-	-	-
Spelling Ability	-	-	-	-	-	-	-	-	-	-
Comprehension Knowledge	3	482	-.54	.03	-.67	.00	-.67	-.67	-.70	-.64

General Verbal Information	3	482	-.52	.03	-.64	.00	-.64	-.64	-.68	-.61
Language Development	-	-	-	-	-	-	-	-	-	-
Lexical Knowledge	8	1,426	-.22	.24	-.27	.29	-.64	.10	-.44	-.09
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	-	-	-	-	-	-	-	-	-	-
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	-	-	-	-	-	-	-	-	-	-
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	-	-	-	-	-	-	-	-	-	-
Life Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Mechanical Knowledge	-	-	-	-	-	-	-	-	-	-
Natural Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Physical Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	-	-	-	-	-	-	-	-	-	-
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	-	-	-	-	-	-	-	-	-	-

Fluid & Processing Speed	3	481	-.44	.07	-.56	.00	-.56	-.56	-.64	-.48
Fluid & Visual Processing	2	439	.02	.03	.03	.00	.03	.03	-.01	.07
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S201. Meta-analytic results describing cognitive abilities’ relations with neuroticism--depression.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	49	21,439	-.14	.10	-.18	.11	-.32	-.04	-.21	-.15
Fluid	11	6,976	-.13	.08	-.17	.09	-.29	-.06	-.22	-.12
Induction	58	15,592	-.10	.09	-.13	.09	-.24	-.02	-.16	-.10
General Sequential Reasoning	8	1,600	-.06	.11	-.09	.10	-.22	.05	-.17	.00
Quantitative Reasoning	24	51,201	-.20	.08	-.25	.10	-.38	-.12	-.28	-.21
Memory	1	291	-.23	-	-.31	-	-	-	-.43	-.18
Long Term Storage and Retrieval	6	9,445	-.07	.04	-.09	.03	-.14	-.05	-.13	-.06
Learning Efficiency	9	911	-.03	.11	-.04	.07	-.12	.05	-.12	.04
Associative Memory	5	3,628	.02	.04	.02	.02	.00	.05	-.01	.06
Meaningful Memory	1	3,590	-.03	-	-.04	-	-	-	-.08	.00
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	16	47,679	-.13	.07	-.17	.09	-.29	-.05	-.21	-.13
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	1	26	.06	-	.08	-	-	-	-.37	.52
Ideational Fluency	6	8,613	-.10	.06	-.13	.07	-.22	-.05	-.18	-.08
Associational Fluency	2	433	.05	.04	.07	.00	.07	.07	.01	.13
Expressional Fluency	2	433	.06	.01	.08	.00	.08	.08	.07	.08
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	3	1,378	-.02	.06	-.03	.06	-.11	.04	-.12	.05
Naming Facility and Speed of Lexical Access	13	39,502	-.14	.09	-.22	.13	-.38	-.05	-.28	-.16
Word Fluency	19	10,992	-.08	.04	-.10	.00	-.10	-.10	-.12	-.08
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	36	46,779	-.15	.08	-.19	.09	-.31	-.08	-.22	-.17
Working Memory Capacity	18	52,223	-.15	.02	-.19	.00	-.19	-.19	-.20	-.17
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	6	1,057	-.24	.11	-.32	.10	-.44	-.19	-.41	-.22
Visualization	35	21,531	-.10	.06	-.12	.05	-.18	-.06	-.14	-.10

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Closure Speed	8	1,785	-.09	.07	-.11	.00	-.11	-.11	-.17	-.06
Flexibility of Closure	2	288	-.07	.07	-.10	.00	-.10	-.10	-.21	.01
Spatial Scanning	1	75	.15	-	.20	-	-	-	-.04	.44
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	2	4,620	-.12	.01	-.16	.00	-.16	-.16	-.18	-.15
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	-	-	-	-	-	-	-	-	-	-
Perceptual Speed	21	6,530	-.03	.07	-.04	.05	-.11	.02	-.08	-.01
Scanning	10	10,410	-.07	.03	-.09	.01	-.11	-.08	-.12	-.07
Pattern Recognition	2	8,052	-.05	.10	-.06	.13	-.22	.10	-.21	.09
Number Facility	8	4,953	-.14	.05	-.17	.04	-.22	-.12	-.21	-.13
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	8	6,398	-.08	.05	-.11	.04	-.15	-.06	-.15	-.07
Choice Reaction Time	8	6,359	-.10	.06	-.14	.07	-.22	-.05	-.19	-.09
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge	-	-	-	-	-	-	-	-	-	-
Quantitative Ability	-	-	-	-	-	-	-	-	-	-
Mathematics Knowledge	-	-	-	-	-	-	-	-	-	-
Mathematics Achievement	-	-	-	-	-	-	-	-	-	-
Verbal Ability	7	4,067	-.14	.07	-.17	.06	-.26	-.09	-.23	-.12
Reading and Writing	1	53	.11	-	.14	-	-	-	-.15	.43
Reading Comprehension	7	5,722	-.11	.05	-.15	.04	-.20	-.10	-.19	-.11
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	2	514	-.10	.17	-.13	.20	-.38	.13	-.38	.12
Native Language Usage	2	514	.00	.04	.00	.00	.00	.00	-.07	.06
Writing Ability	2	115	.04	.20	.05	.19	-.19	.29	-.24	.34
Spelling Ability	4	616	.01	.04	.01	.00	.01	.01	-.03	.06
Comprehension Knowledge	8	2,251	-.17	.12	-.22	.14	-.39	-.04	-.31	-.13

General Verbal Information	9	9,930	-.16	.05	-.20	.04	-.25	-.15	-.24	-.17
Language Development	3	1,744	-.16	.05	-.20	.04	-.25	-.14	-.26	-.13
Lexical Knowledge	30	17,763	-.12	.07	-.15	.07	-.24	-.07	-.18	-.13
Listening Ability	1	326	-.17	-	-.23	-	-	-	-.35	-.11
Domain Specific Knowledge	-	-	-	-	-	-	-	-	-	-
Foreign Language Proficiency	1	326	-.16	-	-.20	-	-	-	-.32	-.09
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	1	62	-.08	-	-.11	-	-	-	-.39	.17
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	-	-	-	-	-	-	-	-	-	-
Life Sciences Knowledge	9	6,475	-.07	.04	-.10	.00	-.10	-.10	-.14	-.07
Mechanical Knowledge	2	383	.01	.17	.01	.20	-.25	.27	-.25	.27
Natural Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Physical Sciences Knowledge	1	120	.06	-	.08	-	-	-	-.12	.28
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	1	62	.02	-	.02	-	-	-	-.27	.32
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	1	4,462	-.14	-	-.18	-	-	-	-.22	-.15
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	2	379	-.05	.04	-.07	.00	-.07	-.07	-.14	-.01
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	2	148	-.12	.09	-.15	.00	-.15	-.15	-.28	-.03
Acquired Knwl., Psychomotor Speed, & Vis. Proc. Fluid & Memory	-	-	-	-	-	-	-	-	-	-

Fluid & Processing Speed	-	-	-	-	-	-	-	-	-	-
Fluid & Visual Processing	-	-	-	-	-	-	-	-	-	-
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	1	174	-.09	-	-.12	-	-	-	-.29	.04
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S202. Meta-analytic results describing cognitive abilities' relations with neuroticism--anxiety.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	128	55,681	-.06	.16	-.07	.19	-.31	.17	-.10	-.04
Fluid	20	4,421	-.02	.09	-.02	.08	-.12	.07	-.07	.02
Induction	82	94,942	-.08	.04	-.10	.04	-.15	-.05	-.11	-.09
General Sequential Reasoning	13	1,959	-.07	.07	-.09	.00	-.09	-.09	-.13	-.05
Quantitative Reasoning	20	75,084	-.06	.03	-.07	.04	-.12	-.03	-.09	-.06
Memory	2	498	-.03	.08	-.04	.06	-.12	.04	-.16	.08
Long Term Storage and Retrieval	6	752	-.13	.15	-.17	.16	-.38	.04	-.31	-.04
Learning Efficiency	9	917	-.02	.12	-.03	.09	-.15	.09	-.12	.06
Associative Memory	5	3,060	.09	.03	.11	.00	.11	.11	.08	.13
Meaningful Memory	1	2,787	.01	-	.01	-	-	-	-.03	.05
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	3	2,995	.07	.03	.09	.00	.09	.09	.05	.12
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	3	696	-.08	.11	-.11	.12	-.26	.05	-.25	.03
Ideational Fluency	12	5,507	-.08	.06	-.10	.05	-.17	-.03	-.14	-.06
Associational Fluency	3	728	-.07	.09	-.08	.09	-.19	.03	-.20	.03
Expressional Fluency	4	808	-.04	.09	-.06	.06	-.14	.02	-.15	.03
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	9	2,629	.00	.09	-.01	.08	-.11	.10	-.07	.06
Naming Facility and Speed of Lexical Access	7	6,356	-.05	.05	-.07	.06	-.14	.01	-.11	-.02
Word Fluency	12	1,477	-.08	.11	-.11	.07	-.20	-.01	-.17	-.04
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	31	8,434	-.04	.08	-.05	.05	-.12	.02	-.08	-.03
Working Memory Capacity	25	8,552	-.08	.06	-.09	.04	-.14	-.05	-.12	-.07
Attentional Executive Control	1	25	.19	-	.22	-	-	-	-.16	.61
Visual Processing	14	3,084	-.04	.10	-.05	.09	-.16	.07	-.10	.01
Visualization	33	78,011	-.07	.03	-.08	.03	-.12	-.04	-.09	-.07

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Closure Speed	11	1,397	-.13	.10	-.16	.05	-.23	-.10	-.22	-.10
Flexibility of Closure	11	73,504	-.05	.01	-.07	.01	-.07	-.06	-.08	-.06
Spatial Scanning	2	310	.03	.16	.04	.17	-.18	.25	-.19	.27
Perceptual Illusions	2	459	.03	.04	.04	.00	.04	.04	-.02	.10
Visual Memory	1	158	-.14	-	-.18	-	-	-	-.35	-.01
Auditory Processing	3	425	-.08	.12	-.11	.11	-.24	.03	-.25	.04
Processing Speed	2	375	-.19	.10	-.23	.08	-.34	-.13	-.37	-.10
Perceptual Speed	28	5,912	.00	.10	.00	.09	-.12	.12	-.04	.04
Scanning	8	72,705	-.08	.01	-.10	.00	-.10	-.10	-.11	-.09
Pattern Recognition	2	2,929	.11	.01	.14	.00	.14	.14	.12	.15
Number Facility	7	695	-.11	.21	-.13	.22	-.41	.14	-.29	.02
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	2	95	-.11	.04	-.14	.00	-.14	-.14	-.20	-.08
Choice Reaction Time	5	5,054	-.06	.04	-.08	.03	-.13	-.04	-.12	-.04
Decision Time	5	5,133	-.05	.03	-.06	.00	-.06	-.06	-.08	-.03
Movement Time	5	5,133	-.07	.04	-.09	.04	-.14	-.04	-.13	-.05
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	1	65	.03	-	.04	-	-	-	-.22	.30
Acquired Knowledge	1	178	-.03	-	-.03	-	-	-	-.18	.12
Quantitative Ability	14	14,084	-.23	.10	-.28	.11	-.42	-.13	-.33	-.22
Mathematics Knowledge	5	72,367	.02	.01	.03	.01	.02	.04	.02	.04
Mathematics Achievement	4	837	-.36	.28	-.46	.35	-.92	-.01	-.77	-.16
Verbal Ability	20	12,277	-.10	.20	-.11	.24	-.42	.19	-.20	-.03
Reading and Writing	2	348	-.11	.13	-.14	.13	-.30	.03	-.32	.05
Reading Comprehension	11	6,715	-.21	.14	-.27	.17	-.48	-.05	-.35	-.18
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	6	1,381	-.04	.08	-.05	.06	-.12	.02	-.12	.02
Writing Ability	4	505	-.06	.04	-.08	.00	-.08	-.08	-.12	-.03
Spelling Ability	6	1,384	.00	.03	.00	.00	.00	.00	-.03	.03
Comprehension Knowledge	13	2,649	-.19	.14	-.24	.15	-.42	-.05	-.31	-.16

General Verbal Information	11	1,631	-.19	.11	-.23	.09	-.34	-.12	-.30	-.17
Language Development	1	114	-.24	-	-.29	-	-	-	-.47	-.12
Lexical Knowledge	55	82,607	-.09	.04	-.11	.04	-.16	-.07	-.12	-.10
Listening Ability	2	406	-.12	.11	-.16	.12	-.31	-.01	-.33	.02
Domain Specific Knowledge	2	498	-.06	.01	-.09	.00	-.09	-.09	-.11	-.07
Foreign Language Proficiency	1	326	-.16	-	-.20	-	-	-	-.30	-.09
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	2	240	-.05	.10	-.07	.06	-.15	.00	-.23	.08
Realistic Knowledge	1	178	-.09	-	-.12	-	-	-	-.30	.05
General Science Knowledge	4	72,408	-.01	.02	-.01	.03	-.05	.02	-.03	.01
Life Sciences Knowledge	1	62	.21	-	.29	-	-	-	.01	.57
Mechanical Knowledge	8	1,776	-.06	.10	-.08	.10	-.21	.05	-.16	.00
Natural Sciences Knowledge	1	745	-.12	-	-.16	-	-	-	-.24	-.08
Physical Sciences Knowledge	4	72,434	-.08	.00	-.10	.00	-.10	-.10	-.11	-.10
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	8	2,419	-.07	.06	-.09	.02	-.12	-.07	-.14	-.05
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	2	379	-.04	.12	-.05	.13	-.22	.11	-.24	.13
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	1	228	.10	-	.12	-	-	-	-.01	.25
Acquired Knowledge & Processing Speed	1	44	-.26	-	-.32	-	-	-	-.60	-.04
Acquired Knowledge & Visual Processing	3	72,222	-.07	.02	-.08	.03	-.12	-.05	-.11	-.05
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	-	-	-	-	-	-	-	-	-	-

Fluid & Processing Speed	3	416	-.03	.06	-.04	.00	-.04	-.04	-.12	.03
Fluid & Visual Processing	3	991	.01	.12	.02	.13	-.15	.18	-.12	.16
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S203. Meta-analytic results describing cognitive abilities’ relations with neuroticism--anxiety---test.

Cognitive Ability Construct	Total K	Total N	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	42	9,293	-.18	.20	-.20	.22	-.48	.07	-.26	-.15
Fluid	7	1,982	-.23	.11	-.28	.12	-.43	-.13	-.36	-.19
Induction	19	2,990	-.20	.11	-.24	.10	-.37	-.12	-.30	-.19
General Sequential Reasoning	1	253	-.24	-	-.30	-	-	-	-.42	-.18
Quantitative Reasoning	2	644	-.27	.16	-.32	.18	-.54	-.09	-.54	-.10
Memory	-	-	-	-	-	-	-	-	-	-
Long Term Storage and Retrieval	2	566	-.09	.06	-.12	.03	-.15	-.08	-.21	-.02
Learning Efficiency	-	-	-	-	-	-	-	-	-	-
Associative Memory	-	-	-	-	-	-	-	-	-	-
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	1	50	-.20	-	-.24	-	-	-	-.52	.03
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	1	212	-.25	-	-.32	-	-	-	-.45	-.18
Ideational Fluency	3	1,552	-.09	.11	-.11	.12	-.27	.05	-.24	.02
Associational Fluency	1	212	-.24	-	-.30	-	-	-	-.43	-.17
Expressional Fluency	1	212	-.17	-	-.22	-	-	-	-.36	-.08
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	1	945	.05	-	.06	-	-	-	-.01	.13
Naming Facility and Speed of Lexical Access	2	313	-.19	.01	-.26	.00	-.26	-.26	-.27	-.25
Word Fluency	-	-	-	-	-	-	-	-	-	-
Short Term Memory	1	253	-.24	-	-.29	-	-	-	-.40	-.17
Memory Span	3	483	-.19	.04	-.23	.00	-.23	-.23	-.27	-.19
Working Memory Capacity	4	1,441	-.05	.13	-.06	.15	-.24	.13	-.19	.07
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	1	158	-.15	-	-.18	-	-	-	-.33	-.02
Visualization	4	515	-.23	.13	-.28	.13	-.44	-.11	-.41	-.14

Closure Speed	-	-	-	-	-	-	-	-	-	-
Flexibility of Closure	4	476	-.06	.15	-.07	.15	-.26	.12	-.23	.08
Spatial Scanning	-	-	-	-	-	-	-	-	-	-
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	-	-	-	-	-	-	-	-	-	-
Perceptual Speed	5	713	-.07	.08	-.08	.00	-.08	-.08	-.15	-.01
Scanning	2	364	-.15	.15	-.19	.16	-.40	.02	-.40	.03
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	4	721	-.32	.18	-.37	.19	-.62	-.13	-.54	-.20
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	-	-	-	-	-	-	-	-	-	-
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge	-	-	-	-	-	-	-	-	-	-
Quantitative Ability	8	2,814	-.17	.05	-.20	.00	-.20	-.20	-.23	-.16
Mathematics Knowledge	3	429	-.18	.04	-.21	.00	-.21	-.21	-.25	-.17
Mathematics Achievement	1	94	-.06	-	-.08	-	-	-	-.29	.14
Verbal Ability	11	2,820	-.19	.15	-.22	.16	-.42	-.02	-.30	-.13
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	3	1,413	-.19	.16	-.24	.20	-.49	.01	-.44	-.05
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	6	1,381	-.25	.04	-.31	.00	-.31	-.31	-.35	-.28
Writing Ability	1	310	-.15	-	-.18	-	-	-	-.28	-.07
Spelling Ability	6	1,384	-.15	.03	-.19	.00	-.19	-.19	-.22	-.17
Comprehension Knowledge	1	116	-.39	-	-.47	-	-	-	-.62	-.31

General Verbal Information	4	987	-.21	.15	-.25	.17	-.46	-.04	-.40	-.10
Language Development	-	-	-	-	-	-	-	-	-	-
Lexical Knowledge	9	2,342	-.21	.05	-.25	.00	-.25	-.25	-.28	-.22
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	1	320	-.18	-	-.27	-	-	-	-.41	-.14
Foreign Language Proficiency	3	734	-.29	.13	-.34	.13	-.51	-.17	-.49	-.20
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	-	-	-	-	-	-	-	-	-	-
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	1	320	-.25	-	-.37	-	-	-	-.50	-.24
Life Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Mechanical Knowledge	6	1,385	-.12	.08	-.15	.05	-.21	-.09	-.21	-.08
Natural Sciences Knowledge	1	745	-.20	-	-.26	-	-	-	-.33	-.18
Physical Sciences Knowledge	1	310	-.09	-	-.11	-	-	-	-.23	.00
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	6	2,179	-.24	.05	-.31	.00	-.31	-.31	-.36	-.27
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	1	228	-.01	-	-.01	-	-	-	-.13	.12
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	-	-	-	-	-	-	-	-	-	-

Fluid & Processing Speed	1	206	-.24	-	-.29	-	-	-	-.42	-.16
Fluid & Visual Processing	-	-	-	-	-	-	-	-	-	-
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S204. Meta-analytic results describing cognitive abilities’ relations with neuroticism--uneven tempered.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	100	396,668	-.24	.07	-.29	.07	-.38	-.19	-.30	-.27
Fluid	66	75,137	-.05	.06	-.06	.06	-.14	.02	-.07	-.04
Induction	169	569,728	-.09	.08	-.11	.10	-.24	.01	-.13	-.10
General Sequential Reasoning	29	11,154	-.02	.05	-.03	.00	-.03	-.03	-.05	-.01
Quantitative Reasoning	30	81,116	.01	.06	.02	.06	-.06	.10	.00	.04
Memory	2	836	-.11	.11	-.14	.13	-.31	.03	-.31	.03
Long Term Storage and Retrieval	3	457	.05	.07	.07	.00	.07	.07	-.02	.15
Learning Efficiency	10	1,062	-.03	.14	-.04	.14	-.21	.14	-.13	.06
Associative Memory	7	796	-.02	.08	-.03	.00	-.03	-.03	-.09	.03
Meaningful Memory	1	138	-.04	-	-.05	-	-	-	-.23	.13
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	1	1,584	-.05	-	-.06	-	-	-	-.12	-.01
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	4	1,325	-.03	.03	-.04	.00	-.04	-.04	-.07	.00
Ideational Fluency	12	5,251	-.05	.05	-.07	.02	-.09	-.05	-.10	-.04
Associational Fluency	3	617	.03	.05	.03	.00	.03	.03	-.02	.09
Expressional Fluency	4	957	-.03	.07	-.04	.05	-.10	.02	-.12	.04
Sensitivity to Problems and Alt. Solutions	1	298	-.02	-	-.03	-	-	-	-.15	.10
Originality and Creativity	12	363,640	-.19	.02	-.25	.00	-.25	-.25	-.26	-.24
Naming Facility and Speed of Lexical Access	4	1,431	-.05	.03	-.07	.00	-.07	-.07	-.10	-.04
Word Fluency	14	1,883	-.01	.10	-.01	.07	-.10	.07	-.07	.05
Short Term Memory	1	361,327	-.09	-	-.11	-	-	-	-.12	-.11
Memory Span	32	371,911	-.14	.02	-.17	.01	-.19	-.16	-.18	-.17
Working Memory Capacity	17	2,930	-.04	.09	-.05	.06	-.13	.03	-.09	.00
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	12	8,995	-.03	.10	-.04	.12	-.19	.11	-.10	.02
Visualization	46	439,848	-.10	.03	-.12	.03	-.16	-.07	-.13	-.11

Closure Speed	19	3,390	-.05	.08	-.06	.01	-.07	-.04	-.09	-.02
Flexibility of Closure	12	74,355	-.02	.02	-.03	.02	-.05	-.01	-.04	-.02
Spatial Scanning	7	1,515	-.02	.05	-.02	.00	-.02	-.02	-.06	.02
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	4	1,267	-.02	.06	-.02	.04	-.07	.03	-.09	.05
Auditory Processing	2	478	-.12	.05	-.16	.00	-.16	-.16	-.24	-.08
Processing Speed	2	698	-.04	.02	-.05	.00	-.05	-.05	-.08	-.01
Perceptual Speed	42	366,027	-.14	.02	-.17	.01	-.19	-.16	-.18	-.17
Scanning	12	434,318	-.11	.02	-.15	.03	-.18	-.11	-.16	-.13
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	12	362,127	-.15	.01	-.18	.00	-.18	-.18	-.18	-.17
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	4	329	-.04	.13	-.05	.09	-.17	.07	-.20	.10
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	3	238	-.03	.08	-.04	.00	-.04	-.04	-.14	.06
Acquired Knowledge	3	221	-.06	.04	-.07	.00	-.07	-.07	-.12	-.02
Quantitative Ability	5	358,641	-.22	.02	-.27	.01	-.28	-.26	-.28	-.26
Mathematics Knowledge	4	442,338	-.16	.13	-.19	.16	-.39	.01	-.32	-.07
Mathematics Achievement	4	361,499	-.22	.02	-.29	.00	-.29	-.29	-.31	-.27
Verbal Ability	15	353,117	-.25	.02	-.30	.01	-.32	-.29	-.31	-.29
Reading and Writing	2	43	-.07	.01	-.09	.00	-.09	-.09	-.10	-.07
Reading Comprehension	11	363,690	-.23	.02	-.30	.00	-.30	-.30	-.31	-.29
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	2	415	.04	.10	.05	.10	-.08	.17	-.10	.20
Native Language Usage	5	362,662	-.21	.02	-.28	.00	-.28	-.28	-.29	-.26
Writing Ability	1	62	-.18	-	-.22	-	-	-	-.47	.03
Spelling Ability	5	362,354	-.19	.01	-.25	.00	-.25	-.25	-.26	-.24
Comprehension Knowledge	23	366,715	-.21	.02	-.26	.00	-.26	-.26	-.27	-.25

General Verbal Information	20	364,637	-.27	.02	-.33	.00	-.33	-.33	-.34	-.32
Language Development	2	361,116	-.21	.00	-.26	.00	-.26	-.26	-.26	-.26
Lexical Knowledge	49	441,540	-.21	.09	-.26	.11	-.40	-.12	-.29	-.23
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	2	356,200	-.19	.00	-.31	.00	-.31	-.31	-.31	-.30
Foreign Language Proficiency	1	305	-.02	-	-.02	-	-	-	-.14	.10
Arts and Humanities	2	362,165	-.21	.00	-.32	.00	-.32	-.32	-.33	-.32
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	1	357,837	-.20	-	-.31	-	-	-	-.31	-.31
Occupational	3	7,180	.00	.01	.01	.00	.01	.01	-.01	.02
Military & Police	2	240	-.11	.08	-.14	.00	-.14	-.14	-.26	-.02
Realistic Knowledge	2	362,922	-.13	.00	-.19	.00	-.19	-.19	-.20	-.19
General Science Knowledge	6	72,827	.06	.02	.10	.02	.08	.12	.08	.12
Life Sciences Knowledge	3	364,203	-.21	.01	-.29	.00	-.29	-.29	-.30	-.28
Mechanical Knowledge	6	364,690	-.14	.01	-.18	.00	-.18	-.18	-.19	-.17
Natural Sciences Knowledge	1	359	-.05	-	-.06	-	-	-	-.18	.05
Physical Sciences Knowledge	5	439,194	-.12	.05	-.16	.06	-.24	-.08	-.21	-.11
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	4	5,815	-.04	.01	-.06	.00	-.06	-.06	-.07	-.05
Social Studies Knowledge	9	363,813	-.19	.02	-.26	.00	-.26	-.26	-.27	-.25
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	2	294	-.14	.03	-.17	.00	-.17	-.17	-.21	-.13
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	1	138	-.01	-	-.01	-	-	-	-.19	.16
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds										
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	3	432,619	-.12	.06	-.15	.07	-.23	-.06	-.21	-.08
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	5	7,651	.00	.02	.00	.00	.00	.00	-.02	.03

Fluid & Processing Speed	6	1,145	-.04	.10	-.06	.08	-.16	.05	-.14	.03
Fluid & Visual Processing	6	2,224	.01	.08	.01	.07	-.08	.10	-.06	.07
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	2	569	.02	.04	.02	.00	.02	.02	-.03	.08
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S205. Meta-analytic results describing cognitive abilities’ relations with neuroticism--suspiciousness.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	36	11,119	-.13	.10	-.17	.11	-.31	-.03	-.21	-.13
Fluid	4	848	-.13	.07	-.18	.04	-.23	-.13	-.26	-.10
Induction	9	1,738	-.07	.09	-.10	.06	-.18	-.02	-.16	-.03
General Sequential Reasoning	12	3,169	-.06	.09	-.09	.10	-.21	.04	-.15	-.03
Quantitative Reasoning	6	2,696	-.20	.04	-.27	.00	-.27	-.27	-.31	-.23
Memory	1	23	-.39	-	-.55	-	-	-	-.96	-.13
Long Term Storage and Retrieval	-	-	-	-	-	-	-	-	-	-
Learning Efficiency	-	-	-	-	-	-	-	-	-	-
Associative Memory	-	-	-	-	-	-	-	-	-	-
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	2	1,650	-.17	.10	-.23	.12	-.39	-.07	-.39	-.07
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	1	1,011	-.13	-	-.19	-	-	-	-.26	-.11
Ideational Fluency	-	-	-	-	-	-	-	-	-	-
Associational Fluency	2	156	.08	.05	.11	.00	.11	.11	.03	.19
Expressional Fluency	2	156	-.05	.06	-.08	.00	-.08	-.08	-.18	.03
Sensitivity to Problems and Alt. Solutions	2	156	.04	.09	.05	.00	.05	.05	-.10	.20
Originality and Creativity	3	378	-.05	.04	-.08	.00	-.08	-.08	-.13	-.02
Naming Facility and Speed of Lexical Access	1	1,068	.02	-	.04	-	-	-	-.04	.12
Word Fluency	3	256	-.11	.15	-.15	.15	-.35	.04	-.36	.05
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	7	2,300	-.20	.06	-.27	.03	-.31	-.23	-.33	-.22
Working Memory Capacity	2	2,405	-.18	.06	-.23	.06	-.31	-.16	-.32	-.15
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	1	156	-.10	-	-.14	-	-	-	-.31	.04
Visualization	12	3,834	-.08	.08	-.11	.07	-.19	-.02	-.16	-.06

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Closure Speed	6	745	-.16	.08	-.22	.00	-.22	-.22	-.29	-.15
Flexibility of Closure	2	156	-.06	.02	-.08	.00	-.08	-.08	-.11	-.04
Spatial Scanning	2	310	-.06	.06	-.08	.00	-.08	-.08	-.17	.01
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	1	100	-.17	-	-.22	-	-	-	-.44	-.01
Perceptual Speed	12	1,728	-.11	.10	-.14	.07	-.23	-.05	-.20	-.08
Scanning	5	684	-.11	.10	-.16	.08	-.26	-.06	-.27	-.05
Pattern Recognition	2	420	-.05	.04	-.07	.00	-.07	-.07	-.14	.00
Number Facility	3	520	-.15	.01	-.20	.00	-.20	-.20	-.21	-.18
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	-	-	-	-	-	-	-	-	-	-
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge	-	-	-	-	-	-	-	-	-	-
Quantitative Ability	1	114	-.12	-	-.15	-	-	-	-.35	.05
Mathematics Knowledge	1	156	-.06	-	-.08	-	-	-	-.26	.09
Mathematics Achievement	-	-	-	-	-	-	-	-	-	-
Verbal Ability	7	2,071	-.12	.07	-.15	.06	-.23	-.08	-.21	-.09
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	8	2,398	-.15	.09	-.21	.09	-.34	-.09	-.29	-.14
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	3	524	-.10	.11	-.14	.10	-.27	-.01	-.28	.00
Native Language Usage	2	416	.03	.01	.04	.00	.04	.04	.02	.06
Writing Ability	-	-	-	-	-	-	-	-	-	-
Spelling Ability	2	416	-.05	.01	-.08	.00	-.08	-.08	-.10	-.06
Comprehension Knowledge	10	3,869	-.21	.09	-.28	.09	-.40	-.16	-.34	-.22

General Verbal Information	9	2,945	-.16	.09	-.22	.09	-.33	-.11	-.28	-.16
Language Development	-	-	-	-	-	-	-	-	-	-
Lexical Knowledge	19	7,067	-.17	.11	-.23	.13	-.40	-.06	-.29	-.17
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	-	-	-	-	-	-	-	-	-	-
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	-	-	-	-	-	-	-	-	-	-
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	1	630	-.23	-	-.39	-	-	-	-.49	-.29
Life Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Mechanical Knowledge	-	-	-	-	-	-	-	-	-	-
Natural Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Physical Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	-	-	-	-	-	-	-	-	-	-
Psychomotor Ability	2	420	-.13	.16	-.18	.19	-.42	.06	-.43	.07
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	2	420	-.09	.14	-.13	.18	-.35	.10	-.36	.11
Manual Dexterity	2	420	-.12	.15	-.16	.18	-.38	.07	-.39	.08
Psychomotor Speed	2	420	-.13	.11	-.18	.12	-.34	-.02	-.37	.01
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	1	108	-.24	-	-.32	-	-	-	-.51	-.12
Acquired Knowledge & Visual Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knwl., Psychomotor Speed, & Vis. Proc. Fluid & Memory	-	-	-	-	-	-	-	-	-	-

Fluid & Processing Speed	3	1,352	-.26	.08	-.35	.08	-.45	-.25	-.46	-.24
Fluid & Visual Processing	4	3,097	-.12	.08	-.16	.10	-.29	-.03	-.25	-.06
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S206. Meta-analytic results describing cognitive abilities’ relations with compound: self esteem.

Cognitive Ability Construct	Total K	Total N	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD$\hat{\rho}$</i>	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	127	434,320	.20	.06	.25	.07	.15	.34	.23	.26
Fluid	67	47,836	.05	.04	.07	.03	.03	.11	.06	.08
Induction	133	420,227	.10	.05	.13	.06	.06	.20	.12	.14
General Sequential Reasoning	29	4,267	.09	.14	.12	.15	-.07	.31	.06	.18
Quantitative Reasoning	34	32,604	.11	.09	.14	.10	.01	.27	.11	.17
Memory	4	9,215	.05	.03	.07	.03	.04	.11	.04	.10
Long Term Storage and Retrieval	8	10,865	.08	.04	.11	.03	.07	.15	.08	.14
Learning Efficiency	9	904	.04	.11	.05	.06	-.03	.13	-.03	.13
Associative Memory	7	19,766	.03	.01	.04	.00	.04	.04	.04	.05
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	12	15,637	.10	.03	.13	.00	.13	.13	.11	.15
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	6	1,905	.11	.07	.15	.06	.07	.22	.08	.21
Ideational Fluency	10	8,277	.09	.05	.12	.05	.06	.18	.09	.16
Associational Fluency	7	1,284	.07	.09	.09	.06	.01	.17	.02	.16
Expressional Fluency	6	1,176	.13	.06	.18	.00	.18	.18	.13	.24
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	9	362,945	.16	.01	.22	.00	.22	.22	.22	.23
Naming Facility and Speed of Lexical Access	8	10,879	.04	.04	.06	.04	.02	.11	.03	.10
Word Fluency	22	15,381	.08	.04	.10	.03	.07	.14	.08	.12
Short Term Memory	1	361,327	.09	-	.12	-	-	-	.11	.12
Memory Span	40	390,216	.12	.02	.15	.02	.13	.18	.15	.16
Working Memory Capacity	16	8,496	.05	.05	.07	.02	.05	.09	.04	.09
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	14	1,960	.14	.17	.18	.19	-.07	.43	.08	.28
Visualization	42	397,889	.09	.02	.12	.02	.10	.14	.11	.12

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Closure Speed	13	10,056	.06	.08	.08	.09	-.03	.19	.03	.13
Flexibility of Closure	6	1,467	.02	.08	.02	.05	-.05	.09	-.04	.09
Spatial Scanning	3	8,178	.07	.02	.09	.00	.09	.09	.07	.11
Perceptual Illusions	4	980	.05	.06	.06	.00	.06	.06	.01	.12
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	1	24	.02	-	.02	-	-	-	-.43	.48
Processing Speed	4	1,116	-.10	.20	-.12	.23	-.42	.18	-.32	.08
Perceptual Speed	36	377,279	.12	.03	.15	.03	.12	.19	.15	.16
Scanning	13	388,494	.10	.02	.14	.01	.12	.16	.13	.15
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	5	359,882	.13	.00	.16	.00	.16	.16	.15	.16
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	9	14,666	.01	.07	.01	.09	-.11	.13	-.04	.07
Choice Reaction Time	9	14,630	.05	.07	.06	.08	-.04	.17	.02	.11
Decision Time	1	8,272	-.07	-	-.09	-	-	-	-.11	-.07
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	1	65	-.05	-	-.07	-	-	-	-.33	.20
Acquired Knowledge	6	1,087	.15	.10	.18	.08	.08	.28	.10	.26
Quantitative Ability	5	371,322	.18	.01	.23	.00	.23	.23	.22	.24
Mathematics Knowledge	4	374,880	.18	.01	.22	.00	.22	.23	.21	.24
Mathematics Achievement	8	400,074	.17	.03	.23	.02	.21	.25	.21	.25
Verbal Ability	17	355,189	.20	.02	.25	.00	.25	.25	.24	.26
Reading and Writing	1	53	.17	-	.22	-	-	-	-.06	.50
Reading Comprehension	12	418,141	.19	.04	.24	.04	.19	.30	.22	.27
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	1	361,257	.17	-	.23	-	-	-	.22	.23
Writing Ability	5	18,678	.07	.01	.08	.00	.08	.08	.08	.09
Spelling Ability	1	361,338	.15	-	.20	-	-	-	.20	.20
Comprehension Knowledge	18	365,152	.17	.01	.21	.00	.21	.21	.21	.22

General Verbal Information	18	363,716	.23	.02	.29	.00	.29	.29	.29	.30
Language Development	2	361,320	.19	.00	.23	.00	.23	.23	.23	.24
Lexical Knowledge	50	416,528	.20	.05	.25	.05	.19	.32	.24	.27
Listening Ability	2	350	.17	.06	.23	.00	.23	.23	.14	.32
Domain Specific Knowledge	1	356,022	.16	-	.26	-	-	-	.26	.27
Foreign Language Proficiency	3	1,128	.08	.06	.10	.05	.04	.16	.03	.18
Arts and Humanities	1	361,935	.18	-	.28	-	-	-	.27	.28
Behavioral Content Knowledge	1	247	.06	-	.14	-	-	-	-.09	.37
Business Knowledge	1	357,837	.16	-	.25	-	-	-	.25	.26
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	1	62	.15	-	.20	-	-	-	-.08	.47
Realistic Knowledge	1	362,744	.12	-	.18	-	-	-	.18	.19
General Science Knowledge	5	31,433	.11	.04	.18	.05	.12	.24	.14	.22
Life Sciences Knowledge	13	370,929	.16	.02	.23	.00	.23	.23	.22	.25
Mechanical Knowledge	2	363,085	.13	.01	.17	.00	.17	.17	.16	.18
Natural Sciences Knowledge	1	1,614	.10	-	.14	-	-	-	.08	.19
Physical Sciences Knowledge	1	366,932	.14	-	.18	-	-	-	.18	.18
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	8	394,692	.16	.02	.23	.00	.23	.23	.21	.24
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	1	221	-.03	-	-.04	-	-	-	-.18	.11
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	1	202	.13	-	.16	-	-	-	.02	.31
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	2	361,220	.14	.01	.17	.00	.17	.17	.16	.19
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	1	318	.11	-	.14	-	-	-	.02	.26
Fluid & Memory	-	-	-	-	-	-	-	-	-	-

Fluid & Processing Speed	7	955	.22	.15	.28	.15	.09	.48	.17	.40
Fluid & Visual Processing	3	947	.02	.08	.03	.07	-.07	.12	-.07	.12
Memory & Processing Speed	1	107	-.02	-	-.02	-	-	-	-.22	.18
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S207. Meta-analytic results describing cognitive abilities’ relations with compound: stress tolerance.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	12	6,211	.07	.10	.08	.11	-.05	.22	.03	.14
Fluid	3	340	.06	.12	.08	.09	-.03	.19	-.06	.23
Induction	8	72,891	.08	.02	.11	.01	.09	.13	.09	.12
General Sequential Reasoning	4	500	-.04	.06	-.06	.00	-.06	-.06	-.12	.00
Quantitative Reasoning	7	112,268	.07	.03	.09	.03	.05	.14	.07	.12
Memory	-	-	-	-	-	-	-	-	-	-
Long Term Storage and Retrieval	1	113	.06	-	.08	-	-	-	-.13	.29
Learning Efficiency	-	-	-	-	-	-	-	-	-	-
Associative Memory	-	-	-	-	-	-	-	-	-	-
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	1	97	-.04	-	-.05	-	-	-	-.27	.17
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	-	-	-	-	-	-	-	-	-	-
Ideational Fluency	-	-	-	-	-	-	-	-	-	-
Associational Fluency	-	-	-	-	-	-	-	-	-	-
Expressional Fluency	1	113	.11	-	.15	-	-	-	-.06	.36
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	-	-	-	-	-	-	-	-	-	-
Naming Facility and Speed of Lexical Access	-	-	-	-	-	-	-	-	-	-
Word Fluency	-	-	-	-	-	-	-	-	-	-
Short Term Memory	1	113	-.05	-	-.06	-	-	-	-.26	.13
Memory Span	-	-	-	-	-	-	-	-	-	-
Working Memory Capacity	2	335	.08	.06	.10	.00	.10	.10	.02	.18
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	-	-	-	-	-	-	-	-	-	-
Visualization	3	72,131	.11	.01	.14	.01	.13	.15	.12	.15

Closure Speed	-	-	-	-	-	-	-	-	-	-
Flexibility of Closure	2	71,946	.08	.01	.10	.01	.08	.11	.08	.12
Spatial Scanning	-	-	-	-	-	-	-	-	-	-
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	7	22,261	.15	.04	.19	.04	.14	.24	.16	.22
Perceptual Speed	3	2,156	.03	.05	.04	.05	-.02	.10	-.02	.10
Scanning	5	74,168	.12	.02	.16	.00	.16	.16	.14	.17
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	8	21,321	.16	.05	.20	.06	.13	.27	.16	.24
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	-	-	-	-	-	-	-	-	-	-
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge	-	-	-	-	-	-	-	-	-	-
Quantitative Ability	-	-	-	-	-	-	-	-	-	-
Mathematics Knowledge	2	71,946	-.05	.00	-.07	.00	-.07	-.07	-.07	-.06
Mathematics Achievement	-	-	-	-	-	-	-	-	-	-
Verbal Ability	2	429	.06	.08	.08	.05	.02	.14	-.03	.19
Reading and Writing	1	2,472	.28	-	.36	-	-	-	.32	.40
Reading Comprehension	2	2,398	.12	.13	.15	.17	-.07	.38	-.05	.36
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	2	3,182	.03	.09	.03	.12	-.12	.19	-.11	.18
Writing Ability	-	-	-	-	-	-	-	-	-	-
Spelling Ability	1	1,873	.10	-	.13	-	-	-	.08	.18
Comprehension Knowledge	-	-	-	-	-	-	-	-	-	-

General Verbal Information	-	-	-	-	-	-	-	-	-	-
Language Development	-	-	-	-	-	-	-	-	-	-
Lexical Knowledge	10	75,847	.09	.03	.11	.03	.07	.16	.10	.13
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	1	1,700	.24	-	.39	-	-	-	.33	.45
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	-	-	-	-	-	-	-	-	-	-
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	2	71,946	.01	.02	.01	.04	-.03	.06	-.03	.06
Life Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Mechanical Knowledge	-	-	-	-	-	-	-	-	-	-
Natural Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Physical Sciences Knowledge	2	71,946	.13	.00	.17	.00	.17	.17	.16	.17
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	-	-	-	-	-	-	-	-	-	-
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds										
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	2	71,946	.12	.01	.16	.00	.16	.16	.14	.17
Acquired Knwl., Psychomotor Speed, & Vis. Proc. Fluid & Memory	-	-	-	-	-	-	-	-	-	-

Fluid & Processing Speed	2	1,365	.20	.01	.26	.00	.26	.26	.24	.28
Fluid & Visual Processing	-	-	-	-	-	-	-	-	-	-
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	1	113	.14	-	.18	-	-	-	-.01	.37
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S208. Meta-analytic results describing cognitive abilities’ relations with compound: locus of control.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	55	56,951	.18	.14	.23	.18	.00	.46	.19	.27
Fluid	11	7,161	.17	.15	.24	.20	-.01	.49	.14	.34
Induction	24	14,820	.14	.10	.20	.13	.03	.36	.15	.25
General Sequential Reasoning	7	4,155	.07	.22	.09	.30	-.29	.48	-.10	.28
Quantitative Reasoning	24	52,212	.15	.07	.20	.09	.09	.32	.17	.23
Memory	2	10,360	.06	.03	.08	.04	.03	.13	.03	.14
Long Term Storage and Retrieval	7	11,408	.07	.03	.10	.02	.07	.13	.08	.13
Learning Efficiency	12	14,649	-.03	.06	-.04	.08	-.14	.06	-.08	.00
Associative Memory	3	17,892	.10	.02	.13	.02	.11	.16	.11	.16
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	1	896	-.19	-	-.27	-	-	-	-.34	-.19
Free Recall Memory	25	47,592	.11	.08	.16	.10	.02	.29	.12	.19
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	8	3,355	-.01	.14	-.01	.20	-.27	.24	-.14	.11
Ideational Fluency	2	300	.08	.02	.11	.00	.11	.11	.07	.15
Associational Fluency	3	2,515	.10	.04	.14	.01	.12	.16	.09	.19
Expressional Fluency	2	300	.15	.09	.22	.05	.16	.29	.07	.37
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	2	300	.16	.02	.24	.00	.24	.24	.20	.27
Naming Facility and Speed of Lexical Access	31	56,243	.10	.09	.17	.13	.00	.33	.12	.21
Word Fluency	9	11,672	.08	.04	.12	.04	.07	.17	.09	.15
Short Term Memory	4	708	.19	.03	.25	.00	.25	.25	.22	.29
Memory Span	42	84,015	.10	.07	.13	.09	.02	.25	.11	.16
Working Memory Capacity	19	61,986	.09	.04	.11	.04	.06	.17	.10	.13
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	5	550	.01	.13	.01	.12	-.14	.17	-.12	.14
Visualization	14	33,439	.08	.15	.11	.20	-.14	.37	.02	.20

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Closure Speed	2	8,184	.09	.01	.13	.00	.13	.13	.12	.13
Flexibility of Closure	3	400	.03	.06	.03	.00	.03	.03	-.05	.11
Spatial Scanning	11	21,594	.11	.08	.16	.10	.03	.28	.10	.21
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	7	13,251	-.02	.01	-.04	.00	-.04	-.04	-.05	-.02
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	-	-	-	-	-	-	-	-	-	-
Perceptual Speed	13	22,764	.09	.07	.12	.09	.00	.24	.07	.16
Scanning	12	39,869	.09	.06	.13	.08	.03	.24	.09	.17
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	1	335	.06	-	.07	-	-	-	-.04	.19
Reaction and Decision Speed	1	4,623	.01	-	.02	-	-	-	-.02	.05
Simple Reaction Time	12	15,998	-.06	.06	-.08	.08	-.19	.02	-.13	-.04
Choice Reaction Time	14	20,453	-.01	.10	-.02	.14	-.20	.16	-.08	.04
Decision Time	7	17,933	.01	.07	.01	.09	-.10	.13	-.05	.07
Movement Time	5	5,038	.11	.07	.16	.09	.05	.27	.08	.23
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge	3	4,678	.12	.04	.16	.05	.10	.22	.11	.22
Quantitative Ability	3	13,567	.27	.05	.35	.06	.27	.43	.29	.42
Mathematics Knowledge	4	5,331	.24	.06	.32	.06	.24	.40	.26	.38
Mathematics Achievement	5	35,908	.32	.04	.46	.00	.46	.46	.42	.50
Verbal Ability	6	1,808	.12	.12	.16	.14	-.02	.35	.05	.27
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	8	53,344	.32	.05	.45	.06	.38	.53	.41	.49
Reading Decoding	1	835	-.12	-	-.15	-	-	-	-.22	-.08
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	1	1,873	.12	-	.18	-	-	-	.12	.23
Writing Ability	3	17,031	.33	.03	.44	.01	.42	.46	.40	.48
Spelling Ability	1	1,873	.09	-	.13	-	-	-	.08	.19
Comprehension Knowledge	3	475	-.10	.05	-.14	.00	-.14	-.14	-.20	-.08

General Verbal Information	4	728	-.01	.11	-.01	.11	-.16	.13	-.14	.11
Language Development	-	-	-	-	-	-	-	-	-	-
Lexical Knowledge	19	44,803	.31	.09	.42	.11	.27	.57	.37	.47
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	1	129	.12	-	.21	-	-	-	-.04	.45
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	1	248	.09	-	.13	-	-	-	-.02	.28
Military & Police	-	-	-	-	-	-	-	-	-	-
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	5	29,892	.30	.04	.50	.00	.50	.50	.45	.56
Life Sciences Knowledge	9	9,335	-.06	.11	-.10	.17	-.31	.12	-.19	.00
Mechanical Knowledge	-	-	-	-	-	-	-	-	-	-
Natural Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Physical Sciences Knowledge	1	4,623	.07	-	.10	-	-	-	.06	.13
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	5	29,547	.28	.02	.42	.00	.42	.42	.40	.44
Psychomotor Ability	1	4,623	-.05	-	-.07	-	-	-	-.10	-.04
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	1	4,623	-.07	-	-.10	-	-	-	-.13	-.06
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds										
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	2	304	.25	.04	.34	.00	.34	.34	.27	.41
Acquired Knwl., Psychomotor Speed, & Vis. Proc. Fluid & Memory	-	-	-	-	-	-	-	-	-	-

Fluid & Processing Speed	5	815	-.05	.15	-.06	.17	-.28	.15	-.21	.08
Fluid & Visual Processing	4	5,238	.11	.02	.15	.00	.15	.15	.12	.17
Memory & Processing Speed	1	2,042	.03	-	.04	-	-	-	-.01	.09
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S209. Meta-analytic results describing cognitive abilities’ relations with agreeableness.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD$\hat{\rho}$</i>	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	375	329,621	-.01	.08	-.01	.08	-.12	.09	-.02	-.01
Fluid	99	79,433	-.04	.07	-.04	.07	-.14	.05	-.06	-.03
Induction	242	316,495	-.02	.06	-.02	.07	-.11	.07	-.03	-.01
General Sequential Reasoning	67	74,865	-.01	.06	-.01	.06	-.09	.06	-.03	.00
Quantitative Reasoning	83	167,105	-.05	.08	-.06	.09	-.18	.05	-.08	-.05
Memory	5	9,044	.05	.04	.06	.04	.01	.12	.02	.10
Long Term Storage and Retrieval	9	7,786	-.01	.02	-.02	.00	-.02	-.02	-.04	.00
Learning Efficiency	11	3,326	.02	.06	.03	.03	-.01	.07	-.01	.07
Associative Memory	12	4,384	.04	.06	.05	.02	.02	.07	.01	.08
Meaningful Memory	6	3,883	.05	.04	.06	.03	.03	.09	.02	.10
Episodic Memory	6	3,674	.09	.05	.11	.05	.06	.17	.07	.16
Free Recall Memory	18	28,630	.08	.06	.11	.07	.02	.20	.08	.14
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	10	2,366	.06	.08	.08	.07	.00	.17	.03	.14
Ideational Fluency	22	17,135	.02	.04	.03	.00	.03	.03	.01	.04
Associational Fluency	13	4,114	.00	.07	.00	.05	-.06	.07	-.04	.04
Expressional Fluency	7	974	.03	.11	.04	.10	-.09	.17	-.05	.13
Sensitivity to Problems and Alt. Solutions	2	156	-.14	.09	-.18	.00	-.18	-.18	-.32	-.04
Originality and Creativity	20	3,054	.04	.11	.06	.10	-.07	.18	.00	.11
Naming Facility and Speed of Lexical Access	15	20,652	.03	.06	.04	.08	-.06	.14	.00	.08
Word Fluency	27	22,041	.01	.06	.02	.06	-.05	.09	.00	.04
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	52	49,363	.08	.05	.10	.05	.04	.17	.09	.12
Working Memory Capacity	32	15,038	.00	.06	.00	.04	-.05	.06	-.02	.03
Attentional Executive Control	7	7,017	-.06	.02	-.08	.00	-.08	-.08	-.09	-.06
Visual Processing	25	8,683	.01	.05	.02	.00	.02	.02	.00	.04
Visualization	65	107,473	.00	.08	.00	.10	-.14	.13	-.03	.02

Closure Speed	7	8,902	.07	.03	.08	.02	.06	.10	.06	.11
Flexibility of Closure	20	76,393	.00	.03	.00	.03	-.04	.03	-.02	.01
Spatial Scanning	7	9,020	.01	.03	.02	.00	.02	.02	-.01	.04
Perceptual Illusions	2	459	-.01	.05	-.02	.00	-.02	-.02	-.09	.05
Visual Memory	9	3,207	-.03	.07	-.04	.06	-.12	.03	-.09	.01
Auditory Processing	1	138	.00	-	.00	-	-	-	-.18	.18
Processing Speed	3	522	-.04	.02	-.05	.00	-.05	-.05	-.07	-.03
Perceptual Speed	53	29,908	.04	.06	.05	.04	-.01	.10	.03	.06
Scanning	17	86,083	.05	.03	.06	.03	.02	.10	.05	.08
Pattern Recognition	2	2,291	-.09	.03	-.11	.02	-.14	-.08	-.16	-.06
Number Facility	18	5,741	.01	.07	.01	.06	-.07	.09	-.03	.04
Reaction and Decision Speed	1	4,623	-.01	-	-.01	-	-	-	-.04	.02
Simple Reaction Time	5	9,464	.00	.04	.00	.04	-.05	.05	-.04	.04
Choice Reaction Time	2	9,226	.03	.02	.03	.03	.00	.07	.00	.07
Decision Time	2	12,895	-.01	.02	-.01	.02	-.03	.01	-.03	.02
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	1	53	-.13	-	-.15	-	-	-	-.42	.11
Inspection Time	2	1,004	.01	.03	.01	.00	.01	.01	-.03	.05
Mental Comparison Speed	3	238	.08	.12	.11	.04	.05	.16	-.04	.25
Acquired Knowledge	9	6,654	.01	.07	.01	.08	-.08	.11	-.03	.06
Quantitative Ability	10	1,375	-.01	.12	-.01	.10	-.14	.11	-.09	.06
Mathematics Knowledge	12	77,663	-.13	.03	-.15	.03	-.20	-.11	-.17	-.14
Mathematics Achievement	5	12,244	.05	.05	.07	.07	-.01	.16	.02	.12
Verbal Ability	63	52,390	.02	.11	.02	.12	-.14	.18	.00	.05
Reading and Writing	3	604	-.02	.04	-.03	.00	-.03	-.03	-.08	.02
Reading Comprehension	25	5,347	.03	.13	.04	.14	-.14	.22	-.01	.09
Reading Decoding	4	2,092	.15	.06	.18	.04	.12	.23	.12	.23
Reading Speed	4	573	-.02	.08	-.02	.00	-.02	-.02	-.10	.06
Native Language Usage	6	1,205	-.01	.06	-.01	.00	-.01	-.01	-.06	.04
Writing Ability	1	62	.08	-	.10	-	-	-	-.16	.36
Spelling Ability	7	1,062	.01	.08	.01	.00	.01	.01	-.05	.07
Comprehension Knowledge	7	2,048	-.01	.11	-.01	.12	-.16	.14	-.10	.08

General Verbal Information	23	4,247	.01	.09	.01	.07	-.08	.10	-.03	.05
Language Development	1	789	-.09	-	-.11	-	-	-	-.18	-.04
Lexical Knowledge	101	104,188	-.03	.09	-.04	.10	-.17	.09	-.06	-.02
Listening Ability	2	1,200	-.04	.01	-.05	.00	-.05	-.05	-.07	-.03
Domain Specific Knowledge	5	902	-.03	.06	-.05	.00	-.05	-.05	-.12	.03
Foreign Language Proficiency	3	1,455	.04	.14	.05	.16	-.15	.25	-.11	.21
Arts and Humanities	2	350	-.10	.04	-.15	.00	-.15	-.15	-.22	-.09
Behavioral Content Knowledge	1	247	.06	-	.13	-	-	-	-.10	.36
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	4	4,884	.03	.04	.04	.04	-.02	.09	-.01	.09
Military & Police	3	406	-.05	.20	-.06	.23	-.36	.23	-.31	.18
Realistic Knowledge	1	178	.01	-	.01	-	-	-	-.17	.19
General Science Knowledge	10	74,785	-.13	.04	-.19	.05	-.26	-.13	-.23	-.16
Life Sciences Knowledge	5	4,281	.15	.03	.21	.00	.21	.21	.18	.24
Mechanical Knowledge	6	1,070	.00	.07	.00	.00	.00	.00	-.06	.06
Natural Sciences Knowledge	3	2,135	-.02	.11	-.03	.14	-.21	.15	-.17	.11
Physical Sciences Knowledge	9	77,611	-.07	.03	-.08	.04	-.14	-.03	-.11	-.06
compound (Nat. Sci. Knowl. & Phy. Sci. Knowl.)	4	1,483	-.02	.06	-.03	.04	-.08	.03	-.10	.04
Social Studies Knowledge	10	4,025	.00	.09	.00	.11	-.13	.14	-.06	.07
Psychomotor Ability	2	4,758	-.04	.07	-.05	.09	-.16	.06	-.16	.05
Aiming	1	138	-.12	-	-.15	-	-	-	-.32	.02
Finger Dexterity	1	173	.08	-	.11	-	-	-	-.06	.27
Manual Dexterity	2	283	-.11	.06	-.13	.00	-.13	-.13	-.23	-.04
Psychomotor Speed	1	4,623	-.04	-	-.05	-	-	-	-.08	-.02
Writing Speed	3	257	-.03	.07	-.05	.00	-.05	-.05	-.13	.04
Compounds										
Acquired Knowledge & Auditory Processing	2	322	.01	.15	.01	.17	-.20	.23	-.21	.24
Acquired Knowledge & Memory	2	1,059	.04	.06	.05	.04	-.01	.10	-.03	.13
Acquired Knowledge & Processing Speed	2	274	-.01	.02	-.01	.00	-.01	-.01	-.04	.02
Acquired Knowledge & Visual Processing	6	76,215	-.06	.02	-.08	.02	-.10	-.06	-.09	-.07
Acquired Knowl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	6	2,300	.03	.12	.04	.13	-.14	.21	-.06	.14

Fluid & Processing Speed	2	3,863	-.05	.01	-.06	.00	-.06	-.06	-.08	-.04
Fluid & Visual Processing	21	10,443	.04	.08	.05	.08	-.06	.16	.01	.09
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	4	1,542	.07	.06	.09	.04	.04	.14	.02	.15
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S210. Meta-analytic results describing cognitive abilities’ relations with agreeableness-compassion.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD$\hat{\rho}$</i>	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	17	357,568	.21	.02	.26	.01	.24	.28	.25	.27
Fluid	42	41,967	-.05	.04	-.07	.02	-.09	-.04	-.08	-.06
Induction	40	385,883	.10	.04	.13	.05	.07	.20	.12	.15
General Sequential Reasoning	6	152	-.13	.07	-.18	.00	-.18	-.18	-.25	-.11
Quantitative Reasoning	10	1,841	-.03	.10	-.04	.08	-.15	.07	-.11	.03
Memory	-	-	-	-	-	-	-	-	-	-
Long Term Storage and Retrieval	2	3,642	.01	.04	.02	.05	-.04	.08	-.05	.09
Learning Efficiency	1	153	.07	-	.10	-	-	-	-.08	.28
Associative Memory	-	-	-	-	-	-	-	-	-	-
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	2	6,767	.06	.04	.08	.05	.01	.15	.01	.15
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	-	-	-	-	-	-	-	-	-	-
Ideational Fluency	5	4,257	.02	.03	.03	.00	.03	.03	.00	.05
Associational Fluency	1	2,371	-.01	-	-.02	-	-	-	-.06	.03
Expressional Fluency	-	-	-	-	-	-	-	-	-	-
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	4	360,973	.14	.00	.19	.00	.19	.19	.19	.20
Naming Facility and Speed of Lexical Access	1	2,378	.00	-	.01	-	-	-	-.04	.06
Word Fluency	2	6,536	.01	.02	.02	.02	-.01	.05	-.02	.06
Short Term Memory	1	361,327	.09	-	.12	-	-	-	.12	.12
Memory Span	4	369,506	.16	.02	.21	.01	.20	.22	.19	.23
Working Memory Capacity	6	6,148	.03	.03	.03	.01	.02	.05	.01	.06
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	-	-	-	-	-	-	-	-	-	-
Visualization	5	361,058	.03	.00	.03	.00	.03	.03	.03	.04

Closure Speed	-	-	-	-	-	-	-	-	-	-
Flexibility of Closure	-	-	-	-	-	-	-	-	-	-
Spatial Scanning	-	-	-	-	-	-	-	-	-	-
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	1	1,309	.05	-	.07	-	-	-	.01	.13
Perceptual Speed	4	360,050	.14	.00	.19	.00	.19	.19	.18	.19
Scanning	2	359,952	.11	.00	.15	.00	.15	.15	.15	.15
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	1	359,368	.13	-	.17	-	-	-	.17	.17
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	3	238	.11	.14	.16	.12	.00	.31	-.04	.35
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	3	238	.07	.15	.09	.14	-.09	.27	-.11	.28
Acquired Knowledge	-	-	-	-	-	-	-	-	-	-
Quantitative Ability	1	357,453	.14	-	.18	-	-	-	.17	.18
Mathematics Knowledge	1	369,865	.13	-	.16	-	-	-	.16	.17
Mathematics Achievement	1	359,094	.14	-	.19	-	-	-	.19	.20
Verbal Ability	8	352,061	.25	.01	.32	.00	.32	.32	.31	.33
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	2	362,463	.22	.02	.30	.00	.30	.30	.28	.33
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	2	362,566	.23	.01	.31	.00	.31	.31	.29	.33
Writing Ability	-	-	-	-	-	-	-	-	-	-
Spelling Ability	1	361,338	.23	-	.32	-	-	-	.31	.32
Comprehension Knowledge	1	361,569	.23	-	.30	-	-	-	.30	.31

General Verbal Information	1	360,899	.21	-	.28	-	-	-	.27	.28
Language Development	1	361,002	.24	-	.31	-	-	-	.31	.31
Lexical Knowledge	9	363,824	.21	.02	.28	.00	.28	.28	.27	.29
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	1	356,022	.16	-	.27	-	-	-	.27	.28
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	1	361,935	.24	-	.38	-	-	-	.37	.38
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	1	357,837	.18	-	.29	-	-	-	.28	.29
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	-	-	-	-	-	-	-	-	-	-
Realistic Knowledge	1	362,744	.02	-	.04	-	-	-	.03	.04
General Science Knowledge	-	-	-	-	-	-	-	-	-	-
Life Sciences Knowledge	1	363,950	.17	-	.25	-	-	-	.25	.26
Mechanical Knowledge	1	362,822	.03	-	.04	-	-	-	.04	.05
Natural Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Physical Sciences Knowledge	1	366,932	.03	-	.04	-	-	-	.03	.04
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	1	361,935	.14	-	.20	-	-	-	.19	.20
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds										
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	1	360,673	.00	-	-.01	-	-	-	-.01	.00
Acquired Knwl., Psychomotor Speed, & Vis. Proc. Fluid & Memory	-	-	-	-	-	-	-	-	-	-

Fluid & Processing Speed	-	-	-	-	-	-	-	-	-	-
Fluid & Visual Processing	4	427	.14	.07	.19	.00	.19	.19	.12	.26
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S211. Meta-analytic results describing cognitive abilities’ relations with agreeableness-politeness.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	15	7,747	.00	.08	.00	.08	-.10	.10	-.05	.04
Fluid	2	919	.02	.18	.02	.23	-.28	.32	-.26	.30
Induction	11	73,945	-.09	.02	-.12	.01	-.14	-.10	-.14	-.11
General Sequential Reasoning	-	-	-	-	-	-	-	-	-	-
Quantitative Reasoning	3	72,068	-.12	.02	-.16	.00	-.16	-.16	-.18	-.14
Memory	-	-	-	-	-	-	-	-	-	-
Long Term Storage and Retrieval	1	2,371	-.02	-	-.02	-	-	-	-.07	.03
Learning Efficiency	1	153	.05	-	.07	-	-	-	-.11	.26
Associative Memory	-	-	-	-	-	-	-	-	-	-
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	1	2,381	.02	-	.03	-	-	-	-.01	.08
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	-	-	-	-	-	-	-	-	-	-
Ideational Fluency	3	238	-.05	.11	-.07	.00	-.07	-.07	-.21	.07
Associational Fluency	1	2,378	.01	-	.01	-	-	-	-.03	.06
Expressional Fluency	-	-	-	-	-	-	-	-	-	-
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	3	238	-.08	.09	-.11	.00	-.11	-.11	-.22	.01
Naming Facility and Speed of Lexical Access	1	2,385	.02	-	.03	-	-	-	-.02	.08
Word Fluency	1	2,377	.01	-	.02	-	-	-	-.03	.06
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	1	2,380	.01	-	.01	-	-	-	-.03	.06
Working Memory Capacity	4	392	.04	.16	.06	.17	-.16	.27	-.12	.23
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	2	918	.01	.06	.01	.05	-.06	.07	-.08	.10
Visualization	6	72,371	-.05	.01	-.07	.00	-.07	-.07	-.07	-.06

Closure Speed	-	-	-	-	-	-	-	-	-	-
Flexibility of Closure	2	71,946	-.02	.02	-.03	.02	-.06	.00	-.06	.00
Spatial Scanning	-	-	-	-	-	-	-	-	-	-
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	-	-	-	-	-	-	-	-	-	-
Perceptual Speed	3	238	.05	.20	.06	.22	-.22	.35	-.19	.32
Scanning	2	71,946	.03	.01	.04	.00	.03	.04	.02	.05
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	-	-	-	-	-	-	-	-	-	-
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	3	238	-.06	.10	-.09	.00	-.09	-.09	-.23	.04
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	3	238	-.02	.07	-.02	.00	-.02	-.02	-.12	.07
Acquired Knowledge	1	178	.11	-	.14	-	-	-	-.02	.30
Quantitative Ability	1	406	.03	-	.04	-	-	-	-.07	.15
Mathematics Knowledge	2	71,946	-.12	.01	-.16	.00	-.16	-.16	-.17	-.15
Mathematics Achievement	-	-	-	-	-	-	-	-	-	-
Verbal Ability	1	30	-.01	-	-.01	-	-	-	-.40	.39
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	-	-	-	-	-	-	-	-	-	-
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	-	-	-	-	-	-	-	-	-	-
Writing Ability	-	-	-	-	-	-	-	-	-	-
Spelling Ability	-	-	-	-	-	-	-	-	-	-
Comprehension Knowledge	1	178	.07	-	.10	-	-	-	-.07	.26

General Verbal Information	-	-	-	-	-	-	-	-	-	-
Language Development	-	-	-	-	-	-	-	-	-	-
Lexical Knowledge	8	72,512	-.10	.02	-.13	.00	-.13	-.13	-.15	-.12
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	1	178	.08	-	.13	-	-	-	-.08	.34
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	1	247	.12	-	.29	-	-	-	.05	.52
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	1	178	.14	-	.19	-	-	-	.02	.36
Realistic Knowledge	1	178	.03	-	.05	-	-	-	-.15	.24
General Science Knowledge	2	71,946	-.14	.00	-.22	.00	-.22	-.22	-.22	-.22
Life Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Mechanical Knowledge	-	-	-	-	-	-	-	-	-	-
Natural Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Physical Sciences Knowledge	3	72,124	-.09	.01	-.13	.00	-.13	-.13	-.14	-.12
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	1	178	.14	-	.20	-	-	-	.02	.38
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	2	71,946	-.08	.01	-.11	.00	-.12	-.11	-.13	-.09
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	-	-	-	-	-	-	-	-	-	-

Fluid & Processing Speed	-	-	-	-	-	-	-	-	-	-
Fluid & Visual Processing	7	1,538	-.02	.08	-.02	.07	-.11	.06	-.09	.05
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S212. Meta-analytic results describing cognitive abilities’ relations with agreeableness--tender mindedness.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	24	6,753	-.04	.08	-.05	.07	-.14	.04	-.09	-.02
Fluid	43	41,702	-.06	.03	-.08	.00	-.08	-.08	-.09	-.07
Induction	62	28,968	-.08	.05	-.11	.03	-.15	-.08	-.13	-.10
General Sequential Reasoning	28	13,389	-.02	.09	-.03	.10	-.16	.10	-.07	.01
Quantitative Reasoning	16	1,740	-.03	.10	-.05	.05	-.11	.02	-.11	.01
Memory	1	291	.19	-	.28	-	-	-	.14	.41
Long Term Storage and Retrieval	-	-	-	-	-	-	-	-	-	-
Learning Efficiency	9	912	-.01	.11	-.02	.05	-.08	.05	-.10	.07
Associative Memory	-	-	-	-	-	-	-	-	-	-
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	1	97	.07	-	.10	-	-	-	-.15	.34
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	-	-	-	-	-	-	-	-	-	-
Ideational Fluency	-	-	-	-	-	-	-	-	-	-
Associational Fluency	-	-	-	-	-	-	-	-	-	-
Expressional Fluency	-	-	-	-	-	-	-	-	-	-
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	-	-	-	-	-	-	-	-	-	-
Naming Facility and Speed of Lexical Access	-	-	-	-	-	-	-	-	-	-
Word Fluency	6	780	.03	.09	.04	.00	.04	.04	-.04	.13
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	12	1,240	.07	.11	.10	.06	.03	.18	.03	.17
Working Memory Capacity	13	1,256	.00	.11	.00	.05	-.07	.07	-.07	.07
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	11	1,415	.01	.06	.02	.00	.02	.02	-.03	.06
Visualization	14	1,340	-.07	.12	-.10	.09	-.22	.02	-.18	-.02

Closure Speed	2	253	-.02	.02	-.03	.00	-.03	-.03	-.06	.00
Flexibility of Closure	1	114	.03	-	.04	-	-	-	-.18	.26
Spatial Scanning	-	-	-	-	-	-	-	-	-	-
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	-	-	-	-	-	-	-	-	-	-
Perceptual Speed	14	1,314	.01	.11	.01	.03	-.03	.05	-.06	.07
Scanning	1	130	-.01	-	-.02	-	-	-	-.23	.20
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	-	-	-	-	-	-	-	-	-	-
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	-	-	-	-	-	-	-	-	-	-
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge	2	253	.06	.01	.08	.00	.08	.08	.06	.10
Quantitative Ability	-	-	-	-	-	-	-	-	-	-
Mathematics Knowledge	-	-	-	-	-	-	-	-	-	-
Mathematics Achievement	-	-	-	-	-	-	-	-	-	-
Verbal Ability	9	900	-.04	.15	-.05	.15	-.25	.15	-.16	.06
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	1	33	.09	-	.13	-	-	-	-.29	.56
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	-	-	-	-	-	-	-	-	-	-
Writing Ability	1	62	-.25	-	-.35	-	-	-	-.62	-.08
Spelling Ability	-	-	-	-	-	-	-	-	-	-
Comprehension Knowledge	1	870	.06	-	.09	-	-	-	.01	.16

General Verbal Information	2	253	.05	.09	.07	.03	.04	.10	-.08	.22
Language Development	1	114	.11	-	.15	-	-	-	-.06	.37
Lexical Knowledge	19	1,809	-.05	.12	-.06	.09	-.17	.05	-.13	.00
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	-	-	-	-	-	-	-	-	-	-
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	3	182	-.22	.11	-.33	.00	-.33	-.33	-.49	-.18
Military & Police	1	62	-.08	-	-.12	-	-	-	-.43	.19
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	-	-	-	-	-	-	-	-	-	-
Life Sciences Knowledge	1	62	-.06	-	-.10	-	-	-	-.43	.23
Mechanical Knowledge	-	-	-	-	-	-	-	-	-	-
Natural Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Physical Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	3	167	-.05	.09	-.08	.00	-.08	-.08	-.21	.05
Social Studies Knowledge	1	62	-.12	-	-.19	-	-	-	-.51	.13
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	1	185	-.15	-	-.20	-	-	-	-.37	-.04
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	3	178	-.02	.13	-.02	.00	-.02	-.02	-.19	.15

Fluid & Processing Speed	-	-	-	-	-	-	-	-	-	-
Fluid & Visual Processing	-	-	-	-	-	-	-	-	-	-
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S213. Meta-analytic results describing cognitive abilities’ relations with agreeableness--nurturance.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	29	11,264	.02	.11	.02	.12	-.14	.18	-.02	.06
Fluid	8	2,573	.00	.07	-.01	.05	-.07	.05	-.06	.04
Induction	43	79,178	-.06	.05	-.08	.05	-.15	-.01	-.10	-.07
General Sequential Reasoning	5	1,219	.01	.08	.01	.07	-.08	.10	-.07	.09
Quantitative Reasoning	9	73,359	-.11	.02	-.14	.03	-.17	-.10	-.15	-.12
Memory	1	291	.20	-	.27	-	-	-	.14	.39
Long Term Storage and Retrieval	-	-	-	-	-	-	-	-	-	-
Learning Efficiency	9	904	.06	.12	.08	.09	-.03	.19	-.01	.16
Associative Memory	1	94	-.01	-	-.01	-	-	-	-.23	.21
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	1	275	.02	-	.03	-	-	-	-.10	.16
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	-	-	-	-	-	-	-	-	-	-
Ideational Fluency	-	-	-	-	-	-	-	-	-	-
Associational Fluency	-	-	-	-	-	-	-	-	-	-
Expressional Fluency	-	-	-	-	-	-	-	-	-	-
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	1	94	-.09	-	-.12	-	-	-	-.35	.11
Naming Facility and Speed of Lexical Access	-	-	-	-	-	-	-	-	-	-
Word Fluency	6	773	.01	.14	.02	.14	-.16	.20	-.11	.14
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	17	1,962	.05	.10	.06	.04	.02	.11	.01	.11
Working Memory Capacity	12	1,237	.01	.07	.01	.00	.01	.01	-.03	.05
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	8	1,978	.03	.08	.04	.06	-.03	.12	-.02	.10
Visualization	18	73,481	-.06	.02	-.08	.01	-.08	-.07	-.09	-.07

Closure Speed	4	453	.05	.11	.07	.08	-.03	.17	-.05	.19
Flexibility of Closure	3	72,060	-.03	.01	-.04	.01	-.06	-.02	-.06	-.03
Spatial Scanning	2	310	-.03	.10	-.04	.08	-.15	.06	-.20	.11
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	-	-	-	-	-	-	-	-	-	-
Perceptual Speed	18	2,017	.01	.10	.01	.04	-.04	.06	-.04	.06
Scanning	2	71,946	.02	.01	.03	.00	.03	.03	.02	.03
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	-	-	-	-	-	-	-	-	-	-
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	-	-	-	-	-	-	-	-	-	-
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge	1	178	.08	-	.10	-	-	-	-.06	.25
Quantitative Ability	-	-	-	-	-	-	-	-	-	-
Mathematics Knowledge	2	71,946	-.12	.01	-.16	.00	-.16	-.16	-.16	-.15
Mathematics Achievement	-	-	-	-	-	-	-	-	-	-
Verbal Ability	3	319	-.07	.05	-.08	.00	-.08	-.08	-.15	-.02
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	-	-	-	-	-	-	-	-	-	-
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	-	-	-	-	-	-	-	-	-	-
Writing Ability	1	62	-.08	-	-.10	-	-	-	-.37	.16
Spelling Ability	-	-	-	-	-	-	-	-	-	-
Comprehension Knowledge	6	1,501	.11	.05	.14	.00	.14	.14	.09	.18

General Verbal Information	4	453	.06	.12	.07	.10	-.06	.21	-.06	.20
Language Development	1	114	.00	-	.00	-	-	-	-.20	.20
Lexical Knowledge	18	73,640	-.07	.02	-.09	.02	-.11	-.07	-.10	-.08
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	1	178	.06	-	.09	-	-	-	-.11	.29
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	1	247	.01	-	.02	-	-	-	-.21	.25
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	2	240	.07	.16	.09	.17	-.13	.32	-.16	.34
Realistic Knowledge	1	178	.05	-	.08	-	-	-	-.10	.26
General Science Knowledge	2	71,946	-.13	.00	-.21	.00	-.21	-.21	-.21	-.21
Life Sciences Knowledge	1	62	-.22	-	-.32	-	-	-	-.60	-.03
Mechanical Knowledge	-	-	-	-	-	-	-	-	-	-
Natural Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Physical Sciences Knowledge	3	72,124	-.09	.01	-.12	.01	-.12	-.11	-.13	-.10
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	2	240	.03	.14	.05	.14	-.13	.23	-.17	.27
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	2	71,946	-.09	.01	-.12	.01	-.13	-.10	-.14	-.10
Acquired Knwl., Psychomotor Speed, & Vis. Proc. Fluid & Memory	-	-	-	-	-	-	-	-	-	-

Fluid & Processing Speed	-	-	-	-	-	-	-	-	-	-
Fluid & Visual Processing	2	1,183	-.01	.03	-.02	.00	-.02	-.02	-.07	.04
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S214. Meta-analytic results describing cognitive abilities’ relations with agreeableness--cooperation.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	22	9,513	.00	.06	.00	.04	-.05	.05	-.02	.03
Fluid	48	49,162	-.02	.06	-.03	.07	-.13	.06	-.05	-.01
Induction	67	95,667	.02	.03	.03	.02	.00	.06	.02	.04
General Sequential Reasoning	7	918	-.01	.09	-.01	.03	-.05	.03	-.09	.07
Quantitative Reasoning	20	116,871	.01	.06	.02	.08	-.09	.12	-.01	.05
Memory	1	291	-.04	-	-.05	-	-	-	-.19	.08
Long Term Storage and Retrieval	-	-	-	-	-	-	-	-	-	-
Learning Efficiency	9	913	.05	.08	.07	.00	.07	.07	.01	.12
Associative Memory	3	179	-.13	.13	-.18	.05	-.25	-.11	-.35	-.01
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	-	-	-	-	-	-	-	-	-	-
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	-	-	-	-	-	-	-	-	-	-
Ideational Fluency	-	-	-	-	-	-	-	-	-	-
Associational Fluency	-	-	-	-	-	-	-	-	-	-
Expressional Fluency	-	-	-	-	-	-	-	-	-	-
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	-	-	-	-	-	-	-	-	-	-
Naming Facility and Speed of Lexical Access	-	-	-	-	-	-	-	-	-	-
Word Fluency	9	962	.01	.11	.01	.08	-.09	.11	-.08	.09
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	12	1,241	.06	.13	.08	.10	-.05	.20	.00	.16
Working Memory Capacity	11	941	.04	.11	.05	.00	.05	.05	-.02	.12
Attentional Executive Control	1	3,340	-.08	-	-.10	-	-	-	-.14	-.07
Visual Processing	6	1,056	-.03	.07	-.03	.00	-.03	-.03	-.10	.03
Visualization	17	73,216	.02	.02	.03	.02	.01	.05	.02	.04

Closure Speed	-	-	-	-	-	-	-	-	-	-
Flexibility of Closure	3	72,060	.03	.01	.04	.01	.02	.06	.02	.05
Spatial Scanning	-	-	-	-	-	-	-	-	-	-
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	6	22,155	.16	.04	.20	.05	.14	.27	.16	.24
Perceptual Speed	12	4,304	-.02	.04	-.03	.00	-.03	-.03	-.06	-.01
Scanning	3	75,286	.05	.03	.07	.04	.02	.11	.03	.10
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	8	21,025	.16	.02	.20	.01	.19	.21	.18	.22
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	-	-	-	-	-	-	-	-	-	-
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge	-	-	-	-	-	-	-	-	-	-
Quantitative Ability	-	-	-	-	-	-	-	-	-	-
Mathematics Knowledge	3	75,286	-.06	.01	-.08	.00	-.08	-.08	-.09	-.07
Mathematics Achievement	-	-	-	-	-	-	-	-	-	-
Verbal Ability	5	273	-.12	.14	-.16	.04	-.21	-.10	-.29	-.03
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	2	2,398	.07	.04	.10	.03	.06	.14	.04	.16
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	1	1,309	.06	-	.08	-	-	-	.02	.15
Writing Ability	1	62	.17	-	.22	-	-	-	-.04	.49
Spelling Ability	-	-	-	-	-	-	-	-	-	-
Comprehension Knowledge	1	870	-.03	-	-.05	-	-	-	-.12	.03

General Verbal Information	-	-	-	-	-	-	-	-	-	-
Language Development	1	114	.01	-	.01	-	-	-	-.19	.21
Lexical Knowledge	18	74,684	.03	.02	.04	.02	.02	.07	.03	.05
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	-	-	-	-	-	-	-	-	-	-
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	1	3,340	.00	-	.01	-	-	-	-.03	.05
Military & Police	1	62	.18	-	.25	-	-	-	-.04	.53
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	2	71,946	-.04	.01	-.06	.01	-.07	-.05	-.08	-.04
Life Sciences Knowledge	1	62	.09	-	.13	-	-	-	-.17	.44
Mechanical Knowledge	1	1,730	.01	-	.02	-	-	-	-.03	.07
Natural Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Physical Sciences Knowledge	2	71,946	.02	.00	.03	.00	.03	.03	.02	.03
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	1	62	.10	-	.15	-	-	-	-.15	.45
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	1	228	.05	-	.06	-	-	-	-.08	.21
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	3	75,286	.01	.02	.01	.03	-.03	.05	-.02	.04
Acquired Knwl., Psychomotor Speed, & Vis. Proc. Fluid & Memory	-	-	-	-	-	-	-	-	-	-

Fluid & Processing Speed	3	20,414	.01	.04	.02	.05	-.05	.09	-.04	.07
Fluid & Visual Processing	-	-	-	-	-	-	-	-	-	-
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S215. Meta-analytic results describing cognitive abilities’ relations with agreeableness--lack of aggression.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	37	23,318	.00	.10	.00	.11	-.14	.13	-.04	.03
Fluid	5	889	.07	.10	.09	.09	-.03	.20	-.01	.18
Induction	20	4,983	-.01	.05	-.01	.00	-.01	-.01	-.03	.02
General Sequential Reasoning	11	3,972	-.01	.06	-.01	.05	-.07	.04	-.05	.03
Quantitative Reasoning	2	420	.04	.01	.06	.00	.06	.06	.05	.07
Memory	2	762	-.01	.02	-.01	.00	-.01	-.01	-.03	.01
Long Term Storage and Retrieval	-	-	-	-	-	-	-	-	-	-
Learning Efficiency	-	-	-	-	-	-	-	-	-	-
Associative Memory	-	-	-	-	-	-	-	-	-	-
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	-	-	-	-	-	-	-	-	-	-
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	-	-	-	-	-	-	-	-	-	-
Ideational Fluency	3	238	.02	.10	.03	.00	.03	.03	-.09	.15
Associational Fluency	-	-	-	-	-	-	-	-	-	-
Expressional Fluency	-	-	-	-	-	-	-	-	-	-
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	4	783	-.03	.06	-.04	.00	-.04	-.04	-.10	.02
Naming Facility and Speed of Lexical Access	-	-	-	-	-	-	-	-	-	-
Word Fluency	-	-	-	-	-	-	-	-	-	-
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	8	1,234	.04	.11	.05	.09	-.07	.17	-.03	.13
Working Memory Capacity	5	1,270	.06	.08	.08	.06	-.01	.16	.00	.15
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	5	330	-.05	.16	-.06	.12	-.21	.09	-.21	.08
Visualization	16	5,212	.02	.05	.03	.00	.03	.03	.00	.06

Closure Speed	7	1,182	.04	.10	.06	.08	-.05	.16	-.02	.14
Flexibility of Closure	-	-	-	-	-	-	-	-	-	-
Spatial Scanning	2	310	-.01	.07	-.01	.00	-.01	-.01	-.11	.10
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	1	545	-.06	-	-.07	-	-	-	-.16	.01
Perceptual Speed	15	2,305	.08	.10	.10	.08	.00	.21	.05	.16
Scanning	2	420	.05	.06	.06	.00	.06	.06	-.03	.16
Pattern Recognition	2	420	-.03	.01	-.04	.00	-.04	-.04	-.06	-.03
Number Facility	2	420	.00	.04	.00	.00	.00	.00	-.05	.05
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	3	238	.03	.05	.04	.00	.04	.04	-.03	.11
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	3	238	.00	.08	.00	.00	.00	.00	-.10	.09
Acquired Knowledge	-	-	-	-	-	-	-	-	-	-
Quantitative Ability	1	114	.16	-	.19	-	-	-	.01	.38
Mathematics Knowledge	1	156	.06	-	.07	-	-	-	-.09	.23
Mathematics Achievement	2	292	.16	.16	.21	.18	-.02	.44	-.04	.45
Verbal Ability	7	1,194	.10	.11	.12	.09	.01	.24	.04	.20
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	6	1,880	.08	.03	.11	.00	.11	.11	.08	.13
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	-	-	-	-	-	-	-	-	-	-
Writing Ability	1	53	.07	-	.09	-	-	-	-.19	.37
Spelling Ability	-	-	-	-	-	-	-	-	-	-
Comprehension Knowledge	11	4,306	.05	.07	.07	.07	-.02	.15	.02	.11

General Verbal Information	12	4,305	.03	.06	.04	.04	-.01	.10	.00	.08
Language Development	-	-	-	-	-	-	-	-	-	-
Lexical Knowledge	21	8,542	.07	.09	.09	.09	-.02	.20	.05	.13
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	-	-	-	-	-	-	-	-	-	-
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	3	184	.09	.10	.12	.00	.12	.12	.00	.24
Military & Police	-	-	-	-	-	-	-	-	-	-
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	-	-	-	-	-	-	-	-	-	-
Life Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Mechanical Knowledge	-	-	-	-	-	-	-	-	-	-
Natural Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Physical Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	3	168	.09	.09	.12	.00	.12	.12	.00	.23
Social Studies Knowledge	-	-	-	-	-	-	-	-	-	-
Psychomotor Ability	2	420	.07	.07	.08	.02	.06	.10	-.02	.19
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	2	420	.06	.04	.08	.00	.08	.08	.02	.14
Manual Dexterity	2	420	.03	.07	.04	.03	.00	.08	-.07	.15
Psychomotor Speed	2	420	.07	.05	.09	.00	.09	.09	.01	.16
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds										
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	3	180	-.10	.05	-.12	.00	-.12	-.12	-.19	-.06

Fluid & Processing Speed	3	1,352	.13	.08	.16	.08	.05	.27	.06	.26
Fluid & Visual Processing	9	4,466	.02	.06	.02	.06	-.05	.10	-.02	.07
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S216. Meta-analytic results describing cognitive abilities’ relations with agreeableness--modesty.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	21	18,561	-.10	.07	-.13	.07	-.22	-.03	-.16	-.10
Fluid	5	1,683	-.04	.10	-.05	.12	-.20	.10	-.15	.05
Induction	35	14,262	-.01	.07	-.01	.06	-.09	.07	-.03	.02
General Sequential Reasoning	1	1,082	.02	-	.03	-	-	-	-.04	.09
Quantitative Reasoning	7	1,444	-.07	.05	-.09	.00	-.09	-.09	-.13	-.06
Memory	1	291	.03	-	.04	-	-	-	-.09	.17
Long Term Storage and Retrieval	-	-	-	-	-	-	-	-	-	-
Learning Efficiency	9	908	-.02	.13	-.03	.12	-.18	.12	-.13	.06
Associative Memory	-	-	-	-	-	-	-	-	-	-
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	-	-	-	-	-	-	-	-	-	-
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	-	-	-	-	-	-	-	-	-	-
Ideational Fluency	1	2,603	-.13	-	-.17	-	-	-	-.22	-.13
Associational Fluency	-	-	-	-	-	-	-	-	-	-
Expressional Fluency	-	-	-	-	-	-	-	-	-	-
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	-	-	-	-	-	-	-	-	-	-
Naming Facility and Speed of Lexical Access	-	-	-	-	-	-	-	-	-	-
Word Fluency	6	778	-.09	.11	-.12	.09	-.24	-.01	-.23	-.02
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	12	1,236	-.03	.08	-.04	.00	-.04	-.04	-.08	.01
Working Memory Capacity	11	936	-.11	.09	-.13	.00	-.13	-.13	-.19	-.07
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	10	1,225	-.09	.07	-.11	.00	-.11	-.11	-.16	-.06
Visualization	11	970	-.09	.08	-.12	.00	-.12	-.12	-.17	-.07

Closure Speed	-	-	-	-	-	-	-	-	-	-
Flexibility of Closure	-	-	-	-	-	-	-	-	-	-
Spatial Scanning	2	310	-.08	.20	-.11	.23	-.41	.19	-.41	.19
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	-	-	-	-	-	-	-	-	-	-
Perceptual Speed	13	1,268	-.05	.11	-.06	.04	-.11	-.02	-.12	.00
Scanning	-	-	-	-	-	-	-	-	-	-
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	-	-	-	-	-	-	-	-	-	-
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	-	-	-	-	-	-	-	-	-	-
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge	-	-	-	-	-	-	-	-	-	-
Quantitative Ability	-	-	-	-	-	-	-	-	-	-
Mathematics Knowledge	-	-	-	-	-	-	-	-	-	-
Mathematics Achievement	-	-	-	-	-	-	-	-	-	-
Verbal Ability	1	93	.24	-	.30	-	-	-	.09	.50
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	1	326	-.17	-	-.23	-	-	-	-.35	-.11
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	-	-	-	-	-	-	-	-	-	-
Writing Ability	1	62	-.02	-	-.03	-	-	-	-.29	.24
Spelling Ability	-	-	-	-	-	-	-	-	-	-
Comprehension Knowledge	1	870	-.12	-	-.15	-	-	-	-.22	-.08

General Verbal Information	-	-	-	-	-	-	-	-	-	-
Language Development	-	-	-	-	-	-	-	-	-	-
Lexical Knowledge	11	960	-.09	.08	-.11	.00	-.11	-.11	-.16	-.06
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	-	-	-	-	-	-	-	-	-	-
Foreign Language Proficiency	1	326	-.13	-	-.17	-	-	-	-.28	-.05
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	3	179	-.01	.10	-.01	.00	-.01	-.01	-.13	.12
Military & Police	1	62	.06	-	.08	-	-	-	-.21	.36
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	-	-	-	-	-	-	-	-	-	-
Life Sciences Knowledge	1	62	-.02	-	-.03	-	-	-	-.33	.27
Mechanical Knowledge	-	-	-	-	-	-	-	-	-	-
Natural Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Physical Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	3	165	-.04	.17	-.06	.14	-.25	.13	-.29	.17
Social Studies Knowledge	1	62	.15	-	.21	-	-	-	-.08	.50
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	3	176	-.08	.13	-.11	.04	-.15	-.06	-.27	.06

Fluid & Processing Speed	-	-	-	-	-	-	-	-	-	-
Fluid & Visual Processing	1	508	-.08	-	-.10	-	-	-	-.20	-.01
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S217. Meta-analytic results describing cognitive abilities’ relations with agreeableness--non manipulative.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	46	14,658	-.01	.10	-.02	.11	-.16	.12	-.05	.02
Fluid	53	71,738	.07	.09	.09	.12	-.06	.25	.07	.12
Induction	132	123,436	.06	.06	.08	.07	-.02	.17	.07	.09
General Sequential Reasoning	18	2,254	.09	.07	.13	.00	.13	.13	.09	.17
Quantitative Reasoning	20	6,439	-.02	.12	-.02	.13	-.19	.15	-.08	.04
Memory	1	291	.19	-	.26	-	-	-	.13	.39
Long Term Storage and Retrieval	2	319	-.07	.01	-.09	.00	-.09	-.09	-.11	-.08
Learning Efficiency	9	905	.07	.15	.10	.14	-.08	.29	-.01	.21
Associative Memory	1	156	.01	-	.01	-	-	-	-.17	.19
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	-	-	-	-	-	-	-	-	-	-
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	2	220	.02	.01	.03	.00	.03	.03	.02	.04
Ideational Fluency	5	1,157	-.11	.05	-.15	.00	-.15	-.15	-.20	-.10
Associational Fluency	3	617	-.11	.07	-.15	.01	-.17	-.13	-.25	-.06
Expressional Fluency	4	957	-.12	.05	-.17	.00	-.17	-.17	-.22	-.11
Sensitivity to Problems and Alt. Solutions	1	298	-.14	-	-.19	-	-	-	-.32	-.06
Originality and Creativity	6	1,177	-.04	.06	-.06	.00	-.06	-.06	-.12	.00
Naming Facility and Speed of Lexical Access	3	344	-.11	.07	-.18	.00	-.18	-.18	-.28	-.08
Word Fluency	9	1,392	-.04	.10	-.06	.07	-.15	.03	-.13	.01
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	20	2,626	.09	.09	.11	.05	.06	.17	.07	.16
Working Memory Capacity	11	932	.04	.07	.05	.00	.05	.05	.01	.09
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	10	7,990	.03	.04	.04	.03	.00	.07	.01	.07
Visualization	26	4,256	.03	.08	.04	.04	-.01	.09	.01	.08

Closure Speed	10	1,960	.05	.09	.07	.08	-.03	.17	.01	.13
Flexibility of Closure	9	2,271	.05	.05	.07	.00	.07	.07	.03	.11
Spatial Scanning	5	1,205	.04	.09	.06	.08	-.05	.16	-.03	.14
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	4	1,267	-.01	.05	-.01	.00	-.01	-.01	-.08	.05
Auditory Processing	1	340	-.10	-	-.15	-	-	-	-.27	-.02
Processing Speed	-	-	-	-	-	-	-	-	-	-
Perceptual Speed	24	3,385	.00	.11	.00	.09	-.11	.12	-.04	.05
Scanning	8	2,459	.02	.05	.03	.00	.03	.03	-.01	.07
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	2	427	.08	.04	.10	.00	.10	.10	.05	.16
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	-	-	-	-	-	-	-	-	-	-
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge	-	-	-	-	-	-	-	-	-	-
Quantitative Ability	1	359	.08	-	.11	-	-	-	-.01	.22
Mathematics Knowledge	-	-	-	-	-	-	-	-	-	-
Mathematics Achievement	3	2,405	.02	.06	.03	.06	-.05	.11	-.04	.11
Verbal Ability	11	1,436	.05	.10	.06	.05	.00	.13	.00	.13
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	3	490	.02	.05	.03	.00	.03	.03	-.03	.09
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	2	415	.03	.05	.03	.00	.03	.03	-.05	.12
Native Language Usage	-	-	-	-	-	-	-	-	-	-
Writing Ability	1	62	.11	-	.15	-	-	-	-.13	.42
Spelling Ability	-	-	-	-	-	-	-	-	-	-
Comprehension Knowledge	13	3,035	.05	.10	.07	.11	-.07	.21	.01	.13

General Verbal Information	10	1,699	.10	.11	.13	.11	.00	.27	.06	.21
Language Development	1	114	.02	-	.03	-	-	-	-.18	.23
Lexical Knowledge	24	3,187	.08	.13	.11	.12	-.05	.26	.05	.16
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	-	-	-	-	-	-	-	-	-	-
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	1	1,220	-.02	-	-.03	-	-	-	-.11	.04
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	3	8,625	.01	.01	.01	.00	.01	.01	.00	.03
Military & Police	1	62	.05	-	.06	-	-	-	-.23	.36
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	1	340	.05	-	.09	-	-	-	-.06	.24
Life Sciences Knowledge	2	253	-.09	.02	-.14	.00	-.14	-.14	-.18	-.09
Mechanical Knowledge	1	340	-.02	-	-.02	-	-	-	-.14	.10
Natural Sciences Knowledge	1	359	.05	-	.07	-	-	-	-.05	.19
Physical Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	4	6,934	.03	.02	.04	.00	.04	.04	.02	.06
Social Studies Knowledge	2	421	.08	.01	.12	.00	.12	.12	.09	.14
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	1	156	.01	-	.02	-	-	-	-.15	.19
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	4	8,647	.00	.03	.01	.02	-.02	.04	-.02	.04

Fluid & Processing Speed	5	618	.07	.06	.10	.00	.10	.10	.03	.16
Fluid & Visual Processing	-	-	-	-	-	-	-	-	-	-
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	2	569	-.05	.07	-.06	.05	-.13	.00	-.18	.05
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S218. Meta-analytic results describing cognitive abilities’ relations with compound: warmth.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD$\hat{\rho}$</i>	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	88	29,337	.01	.12	.01	.13	-.16	.17	-.02	.03
Fluid	25	33,160	.02	.04	.03	.04	-.02	.09	.01	.05
Induction	137	202,970	-.05	.12	-.06	.15	-.26	.13	-.09	-.04
General Sequential Reasoning	26	5,468	-.08	.08	-.10	.05	-.17	-.04	-.14	-.07
Quantitative Reasoning	24	82,733	-.09	.06	-.12	.07	-.21	-.03	-.14	-.09
Memory	4	694	.10	.08	.13	.03	.10	.17	.04	.22
Long Term Storage and Retrieval	5	1,928	.05	.04	.07	.00	.07	.07	.03	.10
Learning Efficiency	9	908	.02	.12	.03	.09	-.09	.15	-.06	.12
Associative Memory	2	294	.04	.03	.05	.00	.05	.05	.01	.09
Meaningful Memory	1	138	.03	-	.04	-	-	-	-.15	.23
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	5	7,131	.13	.05	.17	.05	.10	.24	.12	.22
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	2	220	.08	.10	.11	.05	.04	.17	-.06	.27
Ideational Fluency	11	8,169	.08	.07	.11	.08	.02	.21	.07	.16
Associational Fluency	5	829	.01	.04	.01	.00	.01	.01	-.03	.05
Expressional Fluency	5	1,060	.10	.03	.13	.00	.13	.13	.10	.17
Sensitivity to Problems and Alt. Solutions	1	298	.04	-	.06	-	-	-	-.07	.19
Originality and Creativity	6	1,177	.04	.08	.05	.06	-.02	.13	-.02	.13
Naming Facility and Speed of Lexical Access	4	453	-.02	.09	-.03	.00	-.03	-.03	-.14	.08
Word Fluency	13	5,749	.08	.07	.11	.07	.03	.19	.07	.15
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	32	10,094	.09	.09	.11	.09	.00	.23	.08	.15
Working Memory Capacity	18	8,840	.04	.04	.05	.00	.05	.05	.02	.07
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	18	9,941	-.05	.08	-.07	.09	-.18	.05	-.11	-.03
Visualization	45	83,184	-.04	.03	-.05	.03	-.09	-.01	-.06	-.04

Closure Speed	20	3,248	-.05	.09	-.07	.06	-.14	.00	-.12	-.03
Flexibility of Closure	12	74,355	-.01	.02	-.02	.02	-.05	.02	-.03	.00
Spatial Scanning	5	1,205	-.11	.06	-.15	.00	-.15	-.15	-.21	-.09
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	4	1,267	-.05	.05	-.07	.00	-.07	-.07	-.13	-.02
Auditory Processing	2	478	.02	.06	.03	.00	.03	.03	-.06	.12
Processing Speed	-	-	-	-	-	-	-	-	-	-
Perceptual Speed	40	8,443	.06	.11	.08	.11	-.06	.22	.04	.11
Scanning	15	75,095	.05	.02	.07	.03	.04	.11	.06	.09
Pattern Recognition	2	420	-.06	.02	-.07	.00	-.07	-.07	-.10	-.04
Number Facility	10	4,871	.05	.05	.06	.04	.02	.11	.03	.10
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	1	91	.07	-	.10	-	-	-	-.14	.34
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	1	53	-.20	-	-.24	-	-	-	-.51	.02
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge	5	474	.04	.11	.05	.03	.01	.09	-.05	.15
Quantitative Ability	3	564	-.09	.09	-.11	.06	-.19	-.03	-.22	.00
Mathematics Knowledge	4	72,629	-.13	.01	-.17	.01	-.18	-.16	-.18	-.15
Mathematics Achievement	3	2,405	-.05	.07	-.06	.09	-.18	.05	-.16	.03
Verbal Ability	13	2,249	-.03	.12	-.04	.11	-.18	.10	-.11	.02
Reading and Writing	2	43	-.14	.03	-.18	.00	-.18	-.18	-.22	-.14
Reading Comprehension	14	3,210	.02	.10	.02	.10	-.10	.15	-.03	.08
Reading Decoding	1	795	.09	-	.11	-	-	-	.04	.18
Reading Speed	2	415	-.02	.02	-.02	.00	-.02	-.02	-.05	.00
Native Language Usage	3	822	.14	.05	.19	.00	.19	.19	.13	.25
Writing Ability	1	62	.11	-	.14	-	-	-	-.12	.40
Spelling Ability	2	278	.23	.05	.31	.00	.31	.31	.24	.39
Comprehension Knowledge	25	6,849	-.02	.14	-.03	.16	-.23	.18	-.09	.03

General Verbal Information	21	4,509	-.07	.15	-.09	.17	-.30	.13	-.15	-.02
Language Development	1	114	.06	-	.08	-	-	-	-.12	.27
Lexical Knowledge	47	85,322	-.10	.07	-.12	.09	-.23	-.01	-.15	-.10
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	2	498	-.06	.21	-.09	.32	-.51	.32	-.49	.31
Foreign Language Proficiency	1	305	.09	-	.11	-	-	-	-.01	.23
Arts and Humanities	2	1,450	.02	.06	.04	.07	-.05	.12	-.07	.14
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	3	8,624	-.05	.01	-.06	.00	-.06	-.06	-.07	-.05
Military & Police	2	240	.11	.00	.16	.00	.16	.16	.15	.16
Realistic Knowledge	1	178	.13	-	.20	-	-	-	.02	.39
General Science Knowledge	7	73,147	-.14	.02	-.22	.00	-.22	-.22	-.24	-.19
Life Sciences Knowledge	5	760	-.08	.17	-.11	.22	-.39	.18	-.29	.08
Mechanical Knowledge	2	867	-.03	.09	-.04	.10	-.17	.09	-.18	.10
Natural Sciences Knowledge	1	359	-.14	-	-.19	-	-	-	-.31	-.07
Physical Sciences Knowledge	4	72,262	-.07	.02	-.09	.02	-.11	-.07	-.11	-.07
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	4	6,933	-.02	.03	-.03	.03	-.07	.01	-.07	.01
Social Studies Knowledge	7	1,460	-.05	.15	-.07	.18	-.30	.17	-.20	.06
Psychomotor Ability	2	420	.00	.08	.00	.05	-.06	.06	-.12	.12
Aiming	2	294	-.04	.08	-.05	.00	-.05	-.05	-.17	.06
Finger Dexterity	2	420	-.01	.05	-.02	.00	-.02	-.02	-.10	.06
Manual Dexterity	3	558	-.02	.06	-.02	.00	-.02	-.02	-.09	.05
Psychomotor Speed	2	420	.00	.12	.00	.13	-.17	.17	-.19	.19
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds										
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	2	413	-.10	.14	-.13	.15	-.32	.06	-.33	.07
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	3	72,493	-.05	.01	-.07	.01	-.08	-.06	-.08	-.05
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	5	8,799	-.03	.04	-.04	.04	-.09	.01	-.08	.00

Fluid & Processing Speed	9	2,497	.05	.08	.06	.07	-.02	.15	.01	.12
Fluid & Visual Processing	7	3,826	-.05	.07	-.06	.08	-.16	.04	-.12	.00
Memory & Processing Speed	1	108	-.01	-	-.01	-	-	-	-.22	.19
Memory & Visual Processing	2	569	.04	.04	.06	.00	.06	.06	.00	.11
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S219. Meta-analytic results describing cognitive abilities’ relations with compound: interpersonal sensitivity.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	21	9,855	.16	.13	.20	.15	.01	.39	.14	.26
Fluid	5	1,028	.07	.16	.10	.20	-.17	.36	-.07	.26
Induction	29	5,333	.05	.10	.07	.09	-.05	.18	.03	.11
General Sequential Reasoning	9	2,254	-.03	.05	-.04	.00	-.04	-.04	-.07	.00
Quantitative Reasoning	5	969	.04	.06	.05	.00	.05	.05	-.01	.11
Memory	-	-	-	-	-	-	-	-	-	-
Long Term Storage and Retrieval	-	-	-	-	-	-	-	-	-	-
Learning Efficiency	-	-	-	-	-	-	-	-	-	-
Associative Memory	3	179	.07	.16	.10	.12	-.05	.25	-.10	.30
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	-	-	-	-	-	-	-	-	-	-
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	-	-	-	-	-	-	-	-	-	-
Ideational Fluency	-	-	-	-	-	-	-	-	-	-
Associational Fluency	-	-	-	-	-	-	-	-	-	-
Expressional Fluency	-	-	-	-	-	-	-	-	-	-
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	-	-	-	-	-	-	-	-	-	-
Naming Facility and Speed of Lexical Access	-	-	-	-	-	-	-	-	-	-
Word Fluency	3	179	.07	.10	.10	.00	.10	.10	-.03	.23
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	1	266	-.05	-	-.07	-	-	-	-.20	.07
Working Memory Capacity	1	100	.10	-	.14	-	-	-	-.08	.35
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	1	246	.05	-	.07	-	-	-	-.07	.21
Visualization	7	1,542	.06	.06	.07	.00	.07	.07	.02	.12

Stanek & Ones: Appendix I – Personality-Intelligence Relations

Closure Speed	3	573	.03	.02	.04	.00	.04	.04	.02	.07
Flexibility of Closure	4	1,279	.02	.06	.03	.01	.01	.04	-.04	.09
Spatial Scanning	-	-	-	-	-	-	-	-	-	-
Perceptual Illusions	4	980	.09	.03	.11	.00	.11	.11	.08	.15
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	1	24	.03	-	.04	-	-	-	-.44	.51
Processing Speed	1	106	.03	-	.04	-	-	-	-.17	.25
Perceptual Speed	3	573	.11	.09	.14	.08	.04	.24	.02	.26
Scanning	-	-	-	-	-	-	-	-	-	-
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	5	469	-.03	.12	-.04	.08	-.15	.06	-.16	.07
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	-	-	-	-	-	-	-	-	-	-
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge	2	307	.00	.01	-.01	.00	-.01	-.01	-.02	.01
Quantitative Ability	-	-	-	-	-	-	-	-	-	-
Mathematics Knowledge	-	-	-	-	-	-	-	-	-	-
Mathematics Achievement	1	363	.03	-	.05	-	-	-	-.08	.17
Verbal Ability	5	780	.04	.08	.06	.01	.05	.07	-.02	.13
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	1	796	.10	-	.13	-	-	-	.05	.21
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	-	-	-	-	-	-	-	-	-	-
Writing Ability	-	-	-	-	-	-	-	-	-	-
Spelling Ability	-	-	-	-	-	-	-	-	-	-
Comprehension Knowledge	2	1,057	.03	.02	.04	.00	.04	.04	.01	.06

General Verbal Information	6	1,597	.01	.02	.01	.00	.01	.01	-.01	.03
Language Development	-	-	-	-	-	-	-	-	-	-
Lexical Knowledge	16	3,912	.08	.09	.11	.09	-.01	.22	.05	.16
Listening Ability	1	24	.01	-	.01	-	-	-	-.47	.50
Domain Specific Knowledge	-	-	-	-	-	-	-	-	-	-
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	1	247	.10	-	.24	-	-	-	.00	.48
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	-	-	-	-	-	-	-	-	-	-
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	-	-	-	-	-	-	-	-	-	-
Life Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Mechanical Knowledge	-	-	-	-	-	-	-	-	-	-
Natural Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Physical Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	-	-	-	-	-	-	-	-	-	-
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	-	-	-	-	-	-	-	-	-	-

Fluid & Processing Speed	-	-	-	-	-	-	-	-	-	-
Fluid & Visual Processing	3	1,231	.02	.03	.02	.00	.02	.02	-.02	.07
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S220. Meta-analytic results describing cognitive abilities’ relations with compound: customer service.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	8	1,040	.08	.17	.10	.17	-.12	.32	-.02	.22
Fluid	2	3,525	.01	.01	.01	.00	.01	.01	-.01	.02
Induction	1	6,700	.11	-	.14	-	-	-	.12	.17
General Sequential Reasoning	2	388	-.13	.07	-.17	.00	-.17	-.17	-.28	-.06
Quantitative Reasoning	4	47,659	.11	.06	.13	.07	.04	.22	.07	.19
Memory	-	-	-	-	-	-	-	-	-	-
Long Term Storage and Retrieval	-	-	-	-	-	-	-	-	-	-
Learning Efficiency	-	-	-	-	-	-	-	-	-	-
Associative Memory	-	-	-	-	-	-	-	-	-	-
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	-	-	-	-	-	-	-	-	-	-
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	2	300	.11	.18	.14	.21	-.13	.42	-.14	.42
Ideational Fluency	2	300	.04	.26	.06	.32	-.36	.47	-.34	.45
Associational Fluency	2	300	.02	.17	.03	.19	-.22	.28	-.22	.29
Expressional Fluency	2	300	.13	.10	.18	.07	.09	.27	.03	.33
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	2	300	.08	.18	.11	.21	-.16	.38	-.17	.39
Naming Facility and Speed of Lexical Access	-	-	-	-	-	-	-	-	-	-
Word Fluency	2	300	.12	.10	.16	.07	.08	.25	.01	.31
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	-	-	-	-	-	-	-	-	-	-
Working Memory Capacity	-	-	-	-	-	-	-	-	-	-
Attentional Executive Control	1	3,340	-.04	-	-.05	-	-	-	-.09	-.02
Visual Processing	-	-	-	-	-	-	-	-	-	-
Visualization	-	-	-	-	-	-	-	-	-	-

Closure Speed	-	-	-	-	-	-	-	-	-	-
Flexibility of Closure	-	-	-	-	-	-	-	-	-	-
Spatial Scanning	-	-	-	-	-	-	-	-	-	-
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	1	170	.04	-	.05	-	-	-	-.11	.20
Perceptual Speed	1	3,340	.02	-	.02	-	-	-	-.02	.05
Scanning	1	3,340	-.03	-	-.04	-	-	-	-.07	.00
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	-	-	-	-	-	-	-	-	-	-
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	-	-	-	-	-	-	-	-	-	-
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge	-	-	-	-	-	-	-	-	-	-
Quantitative Ability	-	-	-	-	-	-	-	-	-	-
Mathematics Knowledge	1	3,340	-.06	-	-.08	-	-	-	-.11	-.04
Mathematics Achievement	-	-	-	-	-	-	-	-	-	-
Verbal Ability	-	-	-	-	-	-	-	-	-	-
Reading and Writing	1	2,472	.01	-	.01	-	-	-	-.03	.05
Reading Comprehension	1	1,089	.07	-	.09	-	-	-	.03	.15
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	-	-	-	-	-	-	-	-	-	-
Writing Ability	-	-	-	-	-	-	-	-	-	-
Spelling Ability	-	-	-	-	-	-	-	-	-	-
Comprehension Knowledge	-	-	-	-	-	-	-	-	-	-

General Verbal Information	-	-	-	-	-	-	-	-	-	-
Language Development	-	-	-	-	-	-	-	-	-	-
Lexical Knowledge	-	-	-	-	-	-	-	-	-	-
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	-	-	-	-	-	-	-	-	-	-
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	1	3,340	.02	-	.03	-	-	-	-.01	.06
Military & Police	-	-	-	-	-	-	-	-	-	-
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	-	-	-	-	-	-	-	-	-	-
Life Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Mechanical Knowledge	-	-	-	-	-	-	-	-	-	-
Natural Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Physical Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	-	-	-	-	-	-	-	-	-	-
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	1	173	-.02	-	-.03	-	-	-	-.19	.14
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	1	3,340	-.01	-	-.01	-	-	-	-.05	.02
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	-	-	-	-	-	-	-	-	-	-

Fluid & Processing Speed	4	191,399	.07	.02	.09	.03	.06	.13	.07	.12
Fluid & Visual Processing	-	-	-	-	-	-	-	-	-	-
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S221. Meta-analytic results describing cognitive abilities’ relations with compound: trust.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD$\hat{\rho}$</i>	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	67	22,517	.07	.12	.09	.13	-.08	.25	.06	.12
Fluid	57	73,151	.09	.04	.11	.03	.08	.15	.10	.12
Induction	149	131,986	.12	.11	.15	.13	-.01	.32	.14	.17
General Sequential Reasoning	22	3,306	.05	.10	.07	.09	-.04	.18	.02	.12
Quantitative Reasoning	27	8,152	.06	.09	.08	.09	-.03	.19	.04	.11
Memory	1	291	.12	-	.16	-	-	-	.03	.29
Long Term Storage and Retrieval	-	-	-	-	-	-	-	-	-	-
Learning Efficiency	9	912	.03	.15	.04	.15	-.15	.23	-.07	.15
Associative Memory	1	156	-.01	-	-.01	-	-	-	-.18	.16
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	-	-	-	-	-	-	-	-	-	-
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	3	438	-.04	.12	-.06	.11	-.20	.09	-.21	.10
Ideational Fluency	3	838	-.04	.03	-.05	.00	-.05	-.05	-.09	-.01
Associational Fluency	3	454	-.01	.05	-.02	.00	-.02	-.02	-.08	.04
Expressional Fluency	4	794	-.04	.04	-.05	.00	-.05	-.05	-.09	-.01
Sensitivity to Problems and Alt. Solutions	3	454	-.07	.13	-.10	.13	-.27	.07	-.26	.06
Originality and Creativity	7	1,236	-.02	.05	-.02	.00	-.02	-.02	-.07	.02
Naming Facility and Speed of Lexical Access	3	344	.00	.15	.00	.18	-.23	.22	-.22	.21
Word Fluency	10	1,333	.05	.08	.07	.00	.07	.07	.01	.12
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	20	2,666	.09	.11	.12	.09	.01	.23	.07	.17
Working Memory Capacity	11	941	.13	.08	.17	.00	.17	.17	.11	.22
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	10	7,993	.02	.05	.02	.05	-.04	.08	-.01	.06
Visualization	27	4,480	.02	.09	.02	.05	-.04	.08	-.02	.06

Closure Speed	10	1,991	.05	.09	.07	.07	-.02	.16	.01	.13
Flexibility of Closure	10	2,313	.03	.04	.04	.00	.04	.04	.01	.06
Spatial Scanning	7	1,515	.02	.08	.03	.06	-.04	.10	-.03	.10
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	4	1,267	.04	.06	.05	.03	.01	.10	-.02	.12
Auditory Processing	1	340	-.05	-	-.06	-	-	-	-.19	.06
Processing Speed	2	300	-.06	.09	-.07	.04	-.12	-.02	-.20	.06
Perceptual Speed	28	4,291	.02	.11	.02	.10	-.11	.15	-.02	.07
Scanning	12	2,814	.03	.06	.04	.00	.04	.04	.00	.07
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	3	527	.04	.06	.06	.00	.06	.06	-.02	.13
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	1	91	.04	-	.06	-	-	-	-.19	.30
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge	-	-	-	-	-	-	-	-	-	-
Quantitative Ability	1	359	.07	-	.09	-	-	-	-.02	.20
Mathematics Knowledge	1	2,099	.03	-	.04	-	-	-	-.01	.08
Mathematics Achievement	3	2,405	.00	.02	.00	.00	.00	.00	-.03	.03
Verbal Ability	15	2,973	.06	.08	.07	.06	.00	.15	.03	.12
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	5	906	.00	.06	.00	.00	.00	.00	-.06	.06
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	5	939	.05	.09	.07	.06	-.01	.15	-.01	.15
Native Language Usage	2	416	.00	.06	.00	.00	.00	.00	-.10	.10
Writing Ability	1	62	.32	-	.41	-	-	-	.17	.65
Spelling Ability	2	416	.10	.03	.14	.00	.14	.14	.10	.18
Comprehension Knowledge	13	3,065	.11	.11	.14	.11	-.01	.28	.07	.20

General Verbal Information	10	1,729	.09	.10	.12	.09	.01	.23	.05	.19
Language Development	-	-	-	-	-	-	-	-	-	-
Lexical Knowledge	30	4,791	.04	.09	.06	.06	-.02	.14	.02	.09
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	-	-	-	-	-	-	-	-	-	-
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	1	1,220	.00	-	.00	-	-	-	-.07	.07
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	3	8,625	.04	.02	.05	.00	.05	.06	.03	.08
Military & Police	1	62	.35	-	.47	-	-	-	.22	.73
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	2	970	.09	.12	.14	.18	-.09	.38	-.08	.37
Life Sciences Knowledge	2	253	.00	.12	.00	.12	-.16	.15	-.21	.20
Mechanical Knowledge	1	340	-.01	-	-.02	-	-	-	-.14	.10
Natural Sciences Knowledge	1	359	.04	-	.05	-	-	-	-.07	.17
Physical Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	4	6,934	.03	.01	.04	.00	.04	.04	.02	.05
Social Studies Knowledge	2	421	.03	.12	.05	.14	-.14	.23	-.16	.25
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	1	156	.01	-	.02	-	-	-	-.15	.18
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	1	108	.13	-	.16	-	-	-	-.03	.36
Acquired Knowledge & Visual Processing	2	556	.01	.00	.01	.00	.01	.01	.01	.01
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	4	8,647	.00	.02	.00	.00	.00	.00	-.02	.02

Fluid & Processing Speed	5	618	.14	.06	.19	.00	.19	.19	.13	.25
Fluid & Visual Processing	1	508	.03	-	.04	-	-	-	-.06	.14
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	2	569	.01	.04	.01	.00	.01	.01	-.05	.08
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S222. Meta-analytic results describing cognitive abilities’ relations with compound: machiavellianism.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	17	3,247	.01	.09	.01	.07	-.08	.10	-.03	.06
Fluid	3	1,070	.15	.08	.20	.08	.09	.31	.10	.30
Induction	4	72,153	.10	.01	.13	.00	.13	.13	.13	.14
General Sequential Reasoning	1	70	.10	-	.13	-	-	-	-.13	.39
Quantitative Reasoning	3	72,123	.15	.01	.19	.00	.19	.19	.18	.20
Memory	-	-	-	-	-	-	-	-	-	-
Long Term Storage and Retrieval	-	-	-	-	-	-	-	-	-	-
Learning Efficiency	-	-	-	-	-	-	-	-	-	-
Associative Memory	-	-	-	-	-	-	-	-	-	-
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	-	-	-	-	-	-	-	-	-	-
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	-	-	-	-	-	-	-	-	-	-
Ideational Fluency	-	-	-	-	-	-	-	-	-	-
Associational Fluency	-	-	-	-	-	-	-	-	-	-
Expressional Fluency	-	-	-	-	-	-	-	-	-	-
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	-	-	-	-	-	-	-	-	-	-
Naming Facility and Speed of Lexical Access	-	-	-	-	-	-	-	-	-	-
Word Fluency	-	-	-	-	-	-	-	-	-	-
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	-	-	-	-	-	-	-	-	-	-
Working Memory Capacity	-	-	-	-	-	-	-	-	-	-
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	1	675	-.03	-	-.03	-	-	-	-.12	.05
Visualization	3	72,123	.10	.01	.13	.00	.13	.13	.12	.13

Closure Speed	-	-	-	-	-	-	-	-	-	-
Flexibility of Closure	2	71,946	.09	.01	.11	.01	.10	.13	.09	.13
Spatial Scanning	-	-	-	-	-	-	-	-	-	-
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	-	-	-	-	-	-	-	-	-	-
Perceptual Speed	1	177	.04	-	.05	-	-	-	-.11	.21
Scanning	2	71,946	.04	.00	.05	.00	.05	.05	.05	.05
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	1	177	.05	-	.06	-	-	-	-.09	.22
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	-	-	-	-	-	-	-	-	-	-
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge	1	178	-.06	-	-.08	-	-	-	-.23	.07
Quantitative Ability	-	-	-	-	-	-	-	-	-	-
Mathematics Knowledge	2	71,946	.18	.00	.23	.00	.23	.23	.23	.24
Mathematics Achievement	-	-	-	-	-	-	-	-	-	-
Verbal Ability	5	656	-.01	.09	-.02	.04	-.07	.04	-.10	.07
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	-	-	-	-	-	-	-	-	-	-
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	-	-	-	-	-	-	-	-	-	-
Writing Ability	-	-	-	-	-	-	-	-	-	-
Spelling Ability	-	-	-	-	-	-	-	-	-	-
Comprehension Knowledge	1	178	-.12	-	-.15	-	-	-	-.31	.00

General Verbal Information	-	-	-	-	-	-	-	-	-	-
Language Development	-	-	-	-	-	-	-	-	-	-
Lexical Knowledge	5	72,266	.08	.01	.10	.01	.09	.11	.09	.11
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	1	178	-.06	-	-.10	-	-	-	-.30	.10
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	1	178	-.15	-	-.21	-	-	-	-.37	-.04
Realistic Knowledge	1	178	-.07	-	-.10	-	-	-	-.29	.08
General Science Knowledge	2	71,946	.19	.01	.30	.00	.30	.30	.27	.32
Life Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Mechanical Knowledge	1	177	-.04	-	-.05	-	-	-	-.21	.11
Natural Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Physical Sciences Knowledge	3	72,124	.11	.01	.15	.01	.14	.16	.13	.17
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	1	178	-.06	-	-.08	-	-	-	-.25	.09
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	2	71,946	.13	.01	.17	.01	.16	.18	.15	.19
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	-	-	-	-	-	-	-	-	-	-

Fluid & Processing Speed	-	-	-	-	-	-	-	-	-	-
Fluid & Visual Processing	1	675	.09	-	.12	-	-	-	.04	.20
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S223. Meta-analytic results describing cognitive abilities’ relations with compound: self monitoring.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	6	3,501	.10	.08	.12	.09	.01	.24	.05	.19
Fluid	-	-	-	-	-	-	-	-	-	-
Induction	8	2,178	.05	.03	.07	.00	.07	.07	.05	.09
General Sequential Reasoning	-	-	-	-	-	-	-	-	-	-
Quantitative Reasoning	-	-	-	-	-	-	-	-	-	-
Memory	-	-	-	-	-	-	-	-	-	-
Long Term Storage and Retrieval	-	-	-	-	-	-	-	-	-	-
Learning Efficiency	-	-	-	-	-	-	-	-	-	-
Associative Memory	-	-	-	-	-	-	-	-	-	-
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	-	-	-	-	-	-	-	-	-	-
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	-	-	-	-	-	-	-	-	-	-
Ideational Fluency	-	-	-	-	-	-	-	-	-	-
Associational Fluency	-	-	-	-	-	-	-	-	-	-
Expressional Fluency	-	-	-	-	-	-	-	-	-	-
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	-	-	-	-	-	-	-	-	-	-
Naming Facility and Speed of Lexical Access	-	-	-	-	-	-	-	-	-	-
Word Fluency	-	-	-	-	-	-	-	-	-	-
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	-	-	-	-	-	-	-	-	-	-
Working Memory Capacity	-	-	-	-	-	-	-	-	-	-
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	-	-	-	-	-	-	-	-	-	-
Visualization	-	-	-	-	-	-	-	-	-	-

Closure Speed	-	-	-	-	-	-	-	-	-	-
Flexibility of Closure	-	-	-	-	-	-	-	-	-	-
Spatial Scanning	-	-	-	-	-	-	-	-	-	-
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	-	-	-	-	-	-	-	-	-	-
Perceptual Speed	-	-	-	-	-	-	-	-	-	-
Scanning	-	-	-	-	-	-	-	-	-	-
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	-	-	-	-	-	-	-	-	-	-
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	-	-	-	-	-	-	-	-	-	-
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge	-	-	-	-	-	-	-	-	-	-
Quantitative Ability	-	-	-	-	-	-	-	-	-	-
Mathematics Knowledge	-	-	-	-	-	-	-	-	-	-
Mathematics Achievement	-	-	-	-	-	-	-	-	-	-
Verbal Ability	1	.81	-.05	-	-.06	-	-	-	-.29	.17
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	-	-	-	-	-	-	-	-	-	-
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	-	-	-	-	-	-	-	-	-	-
Writing Ability	-	-	-	-	-	-	-	-	-	-
Spelling Ability	-	-	-	-	-	-	-	-	-	-
Comprehension Knowledge	-	-	-	-	-	-	-	-	-	-

General Verbal Information	-	-	-	-	-	-	-	-	-	-
Language Development	-	-	-	-	-	-	-	-	-	-
Lexical Knowledge	-	-	-	-	-	-	-	-	-	-
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	-	-	-	-	-	-	-	-	-	-
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	-	-	-	-	-	-	-	-	-	-
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	-	-	-	-	-	-	-	-	-	-
Life Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Mechanical Knowledge	-	-	-	-	-	-	-	-	-	-
Natural Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Physical Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	-	-	-	-	-	-	-	-	-	-
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	-	-	-	-	-	-	-	-	-	-

Fluid & Processing Speed	-	-	-	-	-	-	-	-	-	-
Fluid & Visual Processing	-	-	-	-	-	-	-	-	-	-
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S224. Meta-analytic results describing cognitive abilities’ relations with conscientiousness.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	369	345,165	.01	.09	.01	.09	-.11	.13	.00	.02
Fluid	105	81,840	-.11	.10	-.14	.11	-.28	.00	-.16	-.12
Induction	220	307,721	-.04	.07	-.05	.08	-.16	.05	-.06	-.04
General Sequential Reasoning	74	105,673	-.05	.06	-.06	.07	-.15	.03	-.08	-.05
Quantitative Reasoning	73	166,658	-.04	.07	-.05	.09	-.17	.06	-.07	-.04
Memory	5	8,776	.05	.02	.06	.00	.06	.06	.04	.08
Long Term Storage and Retrieval	6	6,513	.01	.01	.01	.00	.01	.01	.00	.02
Learning Efficiency	10	3,198	.03	.05	.04	.00	.04	.04	.01	.07
Associative Memory	5	3,085	-.09	.05	-.11	.04	-.16	-.06	-.16	-.06
Meaningful Memory	5	3,737	-.01	.03	-.01	.00	-.01	-.01	-.04	.01
Episodic Memory	6	3,671	.10	.05	.12	.03	.09	.16	.08	.17
Free Recall Memory	18	27,621	.06	.05	.08	.06	.00	.15	.05	.10
Long Term Visual Memory	5	1,538	.04	.04	.05	.00	.05	.05	.01	.09
Retrieval Fluency	9	1,950	.05	.09	.07	.07	-.02	.16	.00	.13
Ideational Fluency	22	18,060	.00	.07	.00	.07	-.09	.09	-.03	.03
Associational Fluency	7	3,176	.08	.05	.10	.03	.07	.14	.06	.14
Expressional Fluency	4	688	-.04	.07	-.06	.00	-.06	-.06	-.14	.03
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	14	2,113	-.03	.12	-.03	.12	-.19	.12	-.11	.04
Naming Facility and Speed of Lexical Access	16	20,663	.04	.04	.05	.05	-.01	.11	.03	.08
Word Fluency	22	22,560	-.04	.09	-.05	.10	-.18	.09	-.09	-.01
Short Term Memory	1	113	.00	-	.00	-	-	-	-.19	.19
Memory Span	54	49,318	.05	.06	.07	.06	.00	.14	.05	.08
Working Memory Capacity	35	16,223	.04	.07	.05	.07	-.04	.13	.02	.07
Attentional Executive Control	9	7,235	.00	.10	.00	.11	-.14	.14	-.07	.06
Visual Processing	23	8,131	.00	.08	.00	.07	-.09	.10	-.03	.03
Visualization	69	110,587	-.03	.04	-.03	.03	-.08	.01	-.04	-.02

Closure Speed	11	9,266	.02	.07	.03	.08	-.08	.13	-.02	.07
Flexibility of Closure	21	77,351	-.01	.03	-.01	.04	-.06	.04	-.03	.01
Spatial Scanning	10	10,251	-.02	.06	-.02	.06	-.10	.05	-.06	.01
Perceptual Illusions	2	459	.02	.01	.02	.00	.02	.02	.01	.03
Visual Memory	14	3,988	.03	.05	.05	.00	.05	.05	.01	.08
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	7	21,138	.14	.02	.17	.01	.16	.19	.15	.19
Perceptual Speed	55	33,881	.06	.06	.07	.05	.00	.13	.05	.08
Scanning	23	96,293	.06	.08	.08	.11	-.06	.21	.04	.11
Pattern Recognition	4	2,710	-.11	.03	-.14	.00	-.14	-.14	-.17	-.11
Number Facility	21	34,605	.21	.15	.25	.18	.02	.47	.18	.31
Reaction and Decision Speed	1	4,623	.02	-	.02	-	-	-	-.01	.05
Simple Reaction Time	6	9,584	.02	.05	.03	.06	-.05	.10	-.02	.07
Choice Reaction Time	3	9,346	.05	.03	.06	.02	.03	.09	.03	.09
Decision Time	2	12,895	.01	.00	.01	.00	.01	.01	.00	.01
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	1	53	-.04	-	-.05	-	-	-	-.31	.22
Inspection Time	2	997	-.06	.01	-.07	.00	-.07	-.07	-.08	-.07
Mental Comparison Speed	4	534	-.02	.18	-.03	.20	-.28	.22	-.21	.16
Acquired Knowledge	9	10,946	-.01	.05	-.01	.05	-.08	.06	-.04	.03
Quantitative Ability	8	1,938	.01	.14	.02	.15	-.18	.22	-.08	.12
Mathematics Knowledge	7	76,551	-.14	.03	-.17	.03	-.21	-.13	-.20	-.15
Mathematics Achievement	5	12,205	-.05	.03	-.06	.03	-.11	-.02	-.10	-.03
Verbal Ability	37	39,686	-.03	.06	-.04	.07	-.13	.05	-.06	-.02
Reading and Writing	2	3,033	.07	.14	.09	.17	-.13	.31	-.11	.29
Reading Comprehension	23	6,659	.02	.11	.03	.12	-.13	.18	-.02	.08
Reading Decoding	4	2,082	.02	.14	.02	.16	-.19	.23	-.12	.16
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	-	-	-	-	-	-	-	-	-	-
Writing Ability	1	62	.01	-	.01	-	-	-	-.24	.27
Spelling Ability	1	246	-.02	-	-.03	-	-	-	-.16	.11
Comprehension Knowledge	16	5,222	-.05	.14	-.06	.15	-.26	.13	-.13	.01

General Verbal Information	31	5,911	-.02	.13	-.02	.14	-.20	.16	-.07	.03
Language Development	1	789	-.03	-	-.04	-	-	-	-.11	.03
Lexical Knowledge	98	101,140	-.06	.06	-.07	.06	-.15	.00	-.08	-.06
Listening Ability	1	326	.17	-	.23	-	-	-	.11	.34
Domain Specific Knowledge	4	582	.01	.13	.01	.15	-.19	.20	-.16	.17
Foreign Language Proficiency	2	1,150	.30	.09	.37	.10	.25	.50	.24	.50
Arts and Humanities	1	120	.23	-	.35	-	-	-	.14	.57
Behavioral Content Knowledge	5	1,531	.09	.04	.20	.00	.20	.20	.14	.26
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	5	9,250	.08	.05	.11	.06	.03	.19	.06	.16
Military & Police	3	406	.06	.15	.08	.16	-.13	.29	-.11	.27
Realistic Knowledge	1	178	.05	-	.08	-	-	-	-.10	.26
General Science Knowledge	4	72,890	-.14	.01	-.22	.00	-.22	-.22	-.24	-.20
Life Sciences Knowledge	3	457	.01	.13	.01	.14	-.17	.18	-.16	.18
Mechanical Knowledge	3	421	-.15	.08	-.19	.00	-.19	-.19	-.28	-.09
Natural Sciences Knowledge	1	1,614	-.08	-	-.11	-	-	-	-.16	-.05
Physical Sciences Knowledge	8	81,311	-.03	.02	-.04	.01	-.06	-.02	-.05	-.03
compound (Nat. Sci. Knowl. & Phy. Sci. Knowl.)	4	1,483	.08	.05	.11	.00	.11	.11	.06	.16
Social Studies Knowledge	4	2,643	-.03	.05	-.05	.03	-.09	-.01	-.10	.00
Psychomotor Ability	4	5,178	.01	.07	.01	.08	-.10	.11	-.07	.08
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	3	593	-.04	.09	-.05	.07	-.14	.03	-.16	.06
Manual Dexterity	3	565	-.09	.10	-.11	.09	-.23	.00	-.24	.01
Psychomotor Speed	3	5,043	-.04	.03	-.06	.02	-.09	-.03	-.10	-.02
Writing Speed	2	322	-.01	.05	-.01	.00	-.01	-.01	-.08	.07
Compounds										
Acquired Knowledge & Auditory Processing	2	322	.00	.24	.00	.28	-.37	.36	-.35	.34
Acquired Knowledge & Memory	1	210	.19	-	.23	-	-	-	.09	.36
Acquired Knowledge & Processing Speed	1	166	.03	-	.04	-	-	-	-.12	.19
Acquired Knowledge & Visual Processing	6	75,779	-.05	.02	-.06	.02	-.08	-.04	-.07	-.05
Acquired Knowl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	6	2,300	-.03	.01	-.04	.00	-.04	-.04	-.04	-.03

Fluid & Processing Speed	7	21,875	.00	.04	.01	.04	-.05	.06	-.02	.03
Fluid & Visual Processing	26	16,820	.01	.12	.01	.14	-.16	.19	-.03	.06
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	4	1,542	-.08	.05	-.10	.00	-.10	-.10	-.16	-.05
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	1	113	.04	-	.05	-	-	-	-.14	.24
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S225. Meta-analytic results describing cognitive abilities’ relations with conscientiousness-industriousness.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	89	383,960	.27	.07	.32	.07	.23	.42	.31	.34
Fluid	9	2,080	.03	.10	.03	.10	-.09	.16	-.04	.10
Induction	73	450,608	.10	.07	.13	.09	.02	.25	.12	.15
General Sequential Reasoning	16	3,699	-.04	.17	-.05	.20	-.31	.21	-.14	.04
Quantitative Reasoning	14	74,657	-.06	.04	-.08	.04	-.13	-.02	-.10	-.06
Memory	1	291	.13	-	.17	-	-	-	.05	.29
Long Term Storage and Retrieval	1	2,321	.05	-	.07	-	-	-	.02	.11
Learning Efficiency	10	1,065	.03	.11	.04	.07	-.04	.13	-.03	.12
Associative Memory	-	-	-	-	-	-	-	-	-	-
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	2	4,372	.06	.03	.07	.02	.04	.10	.03	.11
Long Term Visual Memory	1	269	.15	-	.19	-	-	-	.07	.32
Retrieval Fluency	1	100	.17	-	.23	-	-	-	.01	.44
Ideational Fluency	5	830	.07	.07	.09	.00	.09	.09	.02	.16
Associational Fluency	1	2,327	.11	-	.14	-	-	-	.10	.19
Expressional Fluency	-	-	-	-	-	-	-	-	-	-
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	4	360,973	.20	.01	.26	.00	.26	.26	.26	.27
Naming Facility and Speed of Lexical Access	1	2,335	.01	-	.02	-	-	-	-.03	.07
Word Fluency	9	3,394	.07	.08	.09	.08	-.02	.19	.03	.15
Short Term Memory	2	361,451	.10	.00	.13	.00	.13	.13	.13	.13
Memory Span	23	366,055	.17	.02	.21	.01	.20	.22	.20	.22
Working Memory Capacity	17	2,486	-.01	.10	-.01	.07	-.10	.08	-.06	.04
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	12	1,563	.10	.14	.13	.13	-.04	.30	.05	.21
Visualization	38	441,212	.09	.04	.11	.05	.05	.17	.10	.12

Stanek & Ones: Appendix I – Personality-Intelligence Relations

Closure Speed	9	1,757	.02	.11	.02	.11	-.12	.16	-.06	.10
Flexibility of Closure	8	73,608	.02	.02	.02	.02	-.01	.05	.01	.03
Spatial Scanning	-	-	-	-	-	-	-	-	-	-
Perceptual Illusions	4	980	.01	.03	.01	.00	.01	.01	-.02	.04
Visual Memory	1	269	.10	-	.14	-	-	-	.01	.27
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	-	-	-	-	-	-	-	-	-	-
Perceptual Speed	34	367,829	.14	.03	.17	.03	.14	.21	.16	.18
Scanning	8	434,549	.11	.01	.15	.00	.15	.15	.14	.16
Pattern Recognition	2	420	-.02	.12	-.03	.13	-.20	.14	-.21	.15
Number Facility	5	361,909	.17	.02	.21	.01	.19	.23	.20	.22
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	3	238	.05	.19	.07	.21	-.20	.33	-.18	.31
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	1	50	-.05	-	-.06	-	-	-	-.36	.23
Mental Comparison Speed	3	238	.07	.21	.09	.23	-.21	.38	-.17	.34
Acquired Knowledge	4	6,316	.07	.09	.08	.10	-.05	.21	.00	.17
Quantitative Ability	3	357,855	.27	.01	.33	.00	.33	.33	.32	.34
Mathematics Knowledge	4	441,964	.19	.16	.23	.19	-.02	.48	.07	.39
Mathematics Achievement	3	366,307	.26	.03	.34	.00	.34	.34	.30	.38
Verbal Ability	21	356,398	.27	.03	.33	.02	.31	.35	.32	.34
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	10	368,625	.24	.03	.31	.03	.28	.34	.29	.33
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	2	363,130	.24	.02	.31	.00	.31	.31	.28	.34
Writing Ability	1	62	.03	-	.04	-	-	-	-.22	.30
Spelling Ability	2	363,211	.24	.02	.31	.00	.31	.31	.29	.34
Comprehension Knowledge	19	367,131	.22	.03	.27	.03	.23	.31	.26	.29

General Verbal Information	19	365,368	.27	.04	.34	.04	.29	.38	.32	.35
Language Development	2	361,116	.23	.00	.29	.00	.29	.29	.29	.29
Lexical Knowledge	51	449,649	.21	.11	.26	.14	.08	.44	.22	.29
Listening Ability	1	326	.13	-	.17	-	-	-	.05	.29
Domain Specific Knowledge	1	356,022	.20	-	.31	-	-	-	.31	.32
Foreign Language Proficiency	1	326	.16	-	.20	-	-	-	.09	.31
Arts and Humanities	1	361,935	.22	-	.34	-	-	-	.33	.34
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	1	357,837	.21	-	.33	-	-	-	.33	.34
Occupational	3	178	-.01	.08	-.02	.00	-.02	-.02	-.11	.08
Military & Police	1	62	.03	-	.03	-	-	-	-.24	.31
Realistic Knowledge	1	362,744	.12	-	.17	-	-	-	.17	.17
General Science Knowledge	2	71,946	-.11	.01	-.17	.00	-.17	-.17	-.19	-.14
Life Sciences Knowledge	2	364,012	.21	.01	.29	.00	.29	.29	.28	.31
Mechanical Knowledge	1	362,822	.13	-	.16	-	-	-	.16	.16
Natural Sciences Knowledge	1	1,614	.14	-	.19	-	-	-	.13	.24
Physical Sciences Knowledge	3	438,878	.12	.07	.16	.09	.04	.27	.07	.25
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	3	164	.00	.07	-.01	.00	-.01	-.01	-.09	.08
Social Studies Knowledge	3	363,611	.20	.00	.28	.00	.28	.28	.27	.28
Psychomotor Ability	2	420	.00	.00	.00	.00	.00	.00	.00	.00
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	2	420	-.01	.06	-.01	.00	-.01	-.01	-.11	.08
Manual Dexterity	2	420	-.02	.01	-.02	.00	-.02	-.02	-.03	-.01
Psychomotor Speed	2	420	.03	.08	.04	.04	-.02	.09	-.08	.15
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds										
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	1	185	.18	-	.22	-	-	-	.07	.36
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	3	432,619	.11	.07	.14	.09	.02	.26	.05	.23
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	4	328	.03	.17	.04	.16	-.17	.25	-.14	.22

Fluid & Processing Speed	7	2,111	-.10	.25	-.12	.31	-.52	.27	-.32	.07
Fluid & Visual Processing	9	3,401	.09	.08	.12	.08	.01	.22	.06	.17
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S226. Meta-analytic results describing cognitive abilities’ relations with conscientiousness-orderliness.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	86	27,324	-.04	.12	-.06	.13	-.22	.11	-.08	-.03
Fluid	24	32,898	.05	.08	.07	.10	-.06	.21	.04	.11
Induction	113	199,564	-.09	.10	-.12	.13	-.29	.04	-.14	-.10
General Sequential Reasoning	38	9,960	-.07	.08	-.09	.06	-.16	-.02	-.12	-.06
Quantitative Reasoning	21	77,752	-.13	.05	-.17	.05	-.24	-.10	-.19	-.15
Memory	1	141	.04	-	.05	-	-	-	-.14	.24
Long Term Storage and Retrieval	4	2,810	.00	.02	.00	.00	.00	.00	-.02	.02
Learning Efficiency	1	153	-.05	-	-.07	-	-	-	-.25	.12
Associative Memory	3	432	.11	.09	.14	.05	.07	.21	.03	.26
Meaningful Memory	1	138	.15	-	.21	-	-	-	.02	.40
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	1	2,362	.09	-	.12	-	-	-	.07	.16
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	2	220	-.03	.04	-.04	.00	-.04	-.04	-.11	.03
Ideational Fluency	12	2,130	.05	.08	.06	.04	.01	.12	.01	.12
Associational Fluency	6	3,409	.04	.04	.06	.00	.06	.06	.03	.09
Expressional Fluency	7	1,554	.02	.06	.02	.00	.02	.02	-.03	.08
Sensitivity to Problems and Alt. Solutions	1	298	.09	-	.12	-	-	-	-.01	.25
Originality and Creativity	13	2,557	.03	.10	.04	.09	-.08	.16	-.02	.10
Naming Facility and Speed of Lexical Access	6	2,985	.08	.05	.13	.00	.13	.13	.08	.18
Word Fluency	7	3,547	.04	.04	.06	.00	.06	.06	.02	.09
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	12	3,984	.04	.08	.05	.07	-.04	.13	.00	.09
Working Memory Capacity	6	707	-.01	.15	-.01	.16	-.21	.19	-.14	.13
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	7	8,038	-.03	.03	-.04	.00	-.04	-.04	-.06	-.02
Visualization	26	76,647	-.05	.02	-.07	.01	-.09	-.05	-.08	-.06

Closure Speed	12	2,138	-.01	.08	-.01	.05	-.08	.05	-.07	.04
Flexibility of Closure	12	74,405	-.04	.02	-.05	.02	-.08	-.03	-.06	-.04
Spatial Scanning	5	1,205	-.07	.06	-.10	.00	-.10	-.10	-.16	-.03
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	4	1,267	-.02	.03	-.03	.00	-.03	-.03	-.07	.00
Auditory Processing	2	478	-.01	.05	-.02	.00	-.02	-.02	-.10	.06
Processing Speed	1	545	-.08	-	-.10	-	-	-	-.19	-.01
Perceptual Speed	22	5,495	.05	.08	.06	.07	-.02	.15	.02	.10
Scanning	14	76,643	.06	.02	.08	.02	.06	.11	.07	.10
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	9	2,642	.10	.04	.13	.00	.13	.13	.10	.15
Reaction and Decision Speed	1	229	.04	-	.05	-	-	-	-.09	.20
Simple Reaction Time	5	572	-.05	.16	-.08	.18	-.31	.16	-.25	.09
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	4	534	-.04	.14	-.05	.14	-.23	.13	-.20	.10
Acquired Knowledge	5	9,037	.00	.01	.00	.00	.00	.00	-.02	.01
Quantitative Ability	3	588	.03	.05	.04	.00	.04	.04	-.02	.11
Mathematics Knowledge	3	72,473	-.16	.02	-.21	.02	-.23	-.19	-.24	-.18
Mathematics Achievement	5	11,327	.02	.03	.02	.03	-.01	.05	-.01	.05
Verbal Ability	16	2,738	.00	.12	.00	.12	-.15	.15	-.06	.07
Reading and Writing	2	43	.05	.03	.06	.00	.06	.06	.02	.10
Reading Comprehension	11	9,615	.00	.07	.01	.09	-.11	.12	-.04	.05
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	2	415	-.16	.09	-.21	.07	-.30	-.12	-.35	-.08
Native Language Usage	3	2,540	.08	.05	.12	.05	.05	.18	.05	.18
Writing Ability	-	-	-	-	-	-	-	-	-	-
Spelling Ability	3	2,151	.16	.01	.22	.00	.22	.22	.20	.23
Comprehension Knowledge	14	2,383	-.03	.09	-.04	.06	-.13	.04	-.10	.01

General Verbal Information	13	2,147	-.03	.10	-.04	.08	-.14	.06	-.10	.02
Language Development	1	230	-.12	-	-.16	-	-	-	-.30	-.02
Lexical Knowledge	30	78,579	-.13	.05	-.17	.06	-.25	-.09	-.19	-.15
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	1	178	.08	-	.13	-	-	-	-.08	.33
Foreign Language Proficiency	1	305	.05	-	.06	-	-	-	-.06	.19
Arts and Humanities	2	1,450	.06	.10	.09	.15	-.10	.29	-.10	.28
Behavioral Content Knowledge	1	247	.01	-	.03	-	-	-	-.21	.27
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	3	8,621	.00	.01	-.01	.00	-.01	-.01	-.01	.00
Military & Police	1	178	.15	-	.21	-	-	-	.05	.38
Realistic Knowledge	1	178	-.01	-	-.01	-	-	-	-.20	.18
General Science Knowledge	6	72,827	-.17	.03	-.28	.01	-.29	-.27	-.31	-.24
Life Sciences Knowledge	1	191	.02	-	.03	-	-	-	-.14	.21
Mechanical Knowledge	2	867	.00	.01	-.01	.00	-.01	-.01	-.02	.01
Natural Sciences Knowledge	1	359	.07	-	.10	-	-	-	-.03	.22
Physical Sciences Knowledge	4	72,262	-.07	.02	-.09	.02	-.11	-.07	-.11	-.07
compound (Nat. Sci. Knowl. & Phy. Sci. Knowl.)	4	6,930	.02	.02	.03	.00	.03	.03	.01	.05
Social Studies Knowledge	5	1,078	.11	.11	.16	.11	.01	.31	.05	.27
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	2	294	.10	.01	.12	.00	.12	.12	.11	.14
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	1	138	.05	-	.06	-	-	-	-.12	.25
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	2	385	.00	.04	-.01	.00	-.01	-.01	-.06	.05
Compounds										
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	1	185	.05	-	.07	-	-	-	-.09	.22
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	2	71,946	-.08	.01	-.11	.01	-.12	-.10	-.13	-.09
Acquired Knowl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	5	8,781	-.04	.03	-.05	.02	-.07	-.03	-.08	-.02

Fluid & Processing Speed	6	1,145	-.05	.09	-.06	.06	-.14	.02	-.14	.01
Fluid & Visual Processing	12	3,365	-.01	.13	-.02	.16	-.22	.18	-.10	.06
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	2	569	.06	.05	.08	.00	.08	.08	.00	.17
Processing Speed & Reaction and Decision Spd.	1	229	-.13	-	-.17	-	-	-	-.32	-.03
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S227. Meta-analytic results describing cognitive abilities’ relations with conscientiousness--achievement.

Cognitive Ability Construct	Total K	Total N	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	132	69,656	.03	.10	.04	.11	-.10	.18	.02	.06
Fluid	58	46,660	-.01	.05	-.02	.04	-.07	.03	-.03	.00
Induction	100	42,455	.00	.09	.00	.09	-.12	.12	-.02	.02
General Sequential Reasoning	16	3,591	.05	.10	.06	.09	-.05	.17	.01	.11
Quantitative Reasoning	21	10,479	.03	.07	.04	.07	-.04	.13	.01	.08
Memory	3	9,108	.04	.01	.06	.00	.06	.06	.04	.08
Long Term Storage and Retrieval	3	1,686	.17	.04	.23	.00	.23	.23	.18	.29
Learning Efficiency	9	915	.00	.09	-.01	.00	-.01	-.01	-.07	.06
Associative Memory	1	138	-.05	-	-.07	-	-	-	-.25	.11
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	2	1,833	.16	.09	.21	.10	.07	.34	.07	.34
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	5	2,585	.11	.11	.15	.14	-.03	.33	.04	.27
Ideational Fluency	3	890	.14	.05	.18	.00	.18	.18	.11	.25
Associational Fluency	2	348	.09	.23	.12	.28	-.25	.48	-.23	.46
Expressional Fluency	1	298	.05	-	.07	-	-	-	-.06	.20
Sensitivity to Problems and Alt. Solutions	1	298	.08	-	.10	-	-	-	-.03	.23
Originality and Creativity	3	972	.09	.09	.12	.10	-.01	.25	.00	.24
Naming Facility and Speed of Lexical Access	4	1,960	-.06	.09	-.08	.11	-.23	.06	-.19	.02
Word Fluency	8	1,131	-.08	.14	-.11	.16	-.31	.09	-.22	.01
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	22	12,144	.07	.07	.09	.07	.00	.17	.06	.12
Working Memory Capacity	15	3,248	.05	.07	.07	.03	.03	.10	.03	.11
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	19	3,062	.03	.08	.05	.03	.00	.09	.00	.09
Visualization	28	11,244	.02	.07	.02	.06	-.05	.09	.00	.05

Closure Speed	11	9,713	.06	.03	.07	.00	.07	.07	.05	.09
Flexibility of Closure	2	412	.02	.06	.02	.00	.02	.02	-.07	.11
Spatial Scanning	3	8,178	.02	.01	.03	.00	.03	.03	.02	.04
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	1	24	.39	-	.53	-	-	-	.14	.92
Processing Speed	1	545	.06	-	.08	-	-	-	-.01	.16
Perceptual Speed	31	12,164	.04	.06	.05	.04	.00	.10	.03	.07
Scanning	4	693	.06	.05	.08	.00	.08	.08	.02	.13
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	5	696	.03	.04	.04	.00	.04	.04	.00	.08
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	1	8,272	-.02	-	-.02	-	-	-	-.05	.00
Choice Reaction Time	1	8,272	.02	-	.03	-	-	-	.00	.05
Decision Time	1	8,272	-.02	-	-.03	-	-	-	-.05	-.01
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	1	50	.04	-	.05	-	-	-	-.25	.35
Mental Comparison Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge	2	530	.00	.13	-.01	.14	-.19	.17	-.19	.18
Quantitative Ability	6	1,336	.01	.05	.01	.00	.01	.01	-.03	.05
Mathematics Knowledge	3	429	.09	.14	.11	.14	-.06	.29	-.05	.28
Mathematics Achievement	-	-	-	-	-	-	-	-	-	-
Verbal Ability	18	2,467	.09	.15	.12	.15	-.07	.31	.05	.19
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	5	1,174	.15	.05	.20	.00	.20	.20	.14	.25
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	4	1,005	-.06	.10	-.08	.10	-.22	.05	-.20	.03
Writing Ability	1	62	.07	-	.09	-	-	-	-.18	.35
Spelling Ability	4	1,008	-.07	.04	-.10	.00	-.10	-.10	-.14	-.05
Comprehension Knowledge	10	2,137	.03	.09	.04	.08	-.06	.14	-.02	.10

General Verbal Information	9	1,551	.03	.09	.04	.06	-.04	.12	-.02	.11
Language Development	1	114	.29	-	.37	-	-	-	.19	.55
Lexical Knowledge	27	5,842	.03	.13	.03	.14	-.14	.21	-.02	.09
Listening Ability	2	350	.14	.09	.19	.05	.12	.25	.05	.32
Domain Specific Knowledge	1	178	.12	-	.20	-	-	-	.00	.40
Foreign Language Proficiency	1	326	.14	-	.18	-	-	-	.06	.29
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	1	247	-.02	-	-.04	-	-	-	-.28	.19
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	4	261	.09	.06	.13	.00	.13	.13	.06	.19
Military & Police	2	240	.14	.02	.19	.00	.19	.19	.15	.23
Realistic Knowledge	1	178	.09	-	.13	-	-	-	-.05	.31
General Science Knowledge	-	-	-	-	-	-	-	-	-	-
Life Sciences Knowledge	1	62	-.17	-	-.25	-	-	-	-.54	.05
Mechanical Knowledge	5	1,109	-.08	.06	-.11	.00	-.11	-.11	-.16	-.05
Natural Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Physical Sciences Knowledge	1	178	.03	-	.04	-	-	-	-.13	.20
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	3	168	.05	.07	.07	.00	.07	.07	-.02	.16
Social Studies Knowledge	4	978	-.06	.09	-.08	.09	-.20	.03	-.19	.02
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	1	202	.10	-	.12	-	-	-	-.02	.27
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	1	28	.03	-	.04	-	-	-	-.36	.45
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	4	317	.02	.14	.02	.11	-.12	.17	-.13	.18

Fluid & Processing Speed	-	-	-	-	-	-	-	-	-	-
Fluid & Visual Processing	6	2,391	.09	.12	.12	.15	-.07	.31	.01	.23
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	2	1,418	.10	.04	.13	.00	.13	.13	.08	.19
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S228. Meta-analytic results describing cognitive abilities’ relations with conscientiousness--persistence.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	40	27,551	.03	.09	.04	.10	-.08	.17	.01	.07
Fluid	4	536	.03	.10	.03	.06	-.04	.11	-.07	.14
Induction	35	16,688	.05	.06	.07	.04	.02	.12	.05	.09
General Sequential Reasoning	11	1,150	.06	.10	.07	.00	.07	.07	.01	.14
Quantitative Reasoning	1	1,309	-.05	-	-.07	-	-	-	-.12	-.01
Memory	-	-	-	-	-	-	-	-	-	-
Long Term Storage and Retrieval	-	-	-	-	-	-	-	-	-	-
Learning Efficiency	1	153	-.06	-	-.08	-	-	-	-.26	.10
Associative Memory	1	153	.08	-	.11	-	-	-	-.07	.28
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	1	469	.03	-	.05	-	-	-	-.06	.15
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	-	-	-	-	-	-	-	-	-	-
Ideational Fluency	11	2,754	.10	.14	.13	.17	-.09	.35	.04	.22
Associational Fluency	3	655	.01	.18	.02	.22	-.26	.30	-.21	.24
Expressional Fluency	4	819	-.07	.17	-.10	.21	-.36	.17	-.29	.09
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	11	2,413	.02	.10	.03	.09	-.09	.15	-.04	.09
Naming Facility and Speed of Lexical Access	2	265	.01	.01	.01	.00	.01	.01	-.01	.04
Word Fluency	2	252	.10	.02	.14	.00	.14	.14	.11	.17
Short Term Memory	1	124	-.16	-	-.21	-	-	-	-.40	-.02
Memory Span	8	1,266	.03	.06	.03	.00	.03	.03	-.01	.08
Working Memory Capacity	7	1,383	.03	.09	.04	.06	-.04	.11	-.03	.10
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	1	580	-.02	-	-.02	-	-	-	-.11	.07
Visualization	16	1,899	.07	.12	.09	.10	-.03	.22	.03	.16

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Closure Speed	9	1,349	.10	.07	.14	.00	.14	.14	.08	.19
Flexibility of Closure	1	164	-.14	-	-.18	-	-	-	-.35	-.02
Spatial Scanning	2	310	.07	.13	.09	.13	-.08	.27	-.10	.29
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	2	1,462	.05	.01	.06	.00	.06	.06	.04	.08
Perceptual Speed	17	2,262	.11	.09	.15	.00	.15	.15	.10	.19
Scanning	4	708	.04	.07	.06	.00	.06	.06	-.02	.14
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	1	101	.04	-	.05	-	-	-	-.16	.26
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	3	238	.05	.23	.07	.29	-.30	.45	-.24	.39
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	1	53	-.26	-	-.32	-	-	-	-.58	-.06
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	3	238	.08	.19	.11	.21	-.16	.37	-.14	.35
Acquired Knowledge	-	-	-	-	-	-	-	-	-	-
Quantitative Ability	1	208	.02	-	.03	-	-	-	-.12	.17
Mathematics Knowledge	1	47	-.08	-	-.10	-	-	-	-.41	.20
Mathematics Achievement	-	-	-	-	-	-	-	-	-	-
Verbal Ability	1	79	-.15	-	-.19	-	-	-	-.42	.04
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	3	2,854	.03	.07	.04	.09	-.07	.16	-.05	.14
Reading Decoding	1	795	.07	-	.09	-	-	-	.02	.16
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	2	1,356	-.03	.00	-.04	.00	-.04	-.04	-.04	-.04
Writing Ability	-	-	-	-	-	-	-	-	-	-
Spelling Ability	1	47	-.21	-	-.29	-	-	-	-.61	.03
Comprehension Knowledge	8	854	.12	.11	.16	.07	.06	.25	.07	.24

General Verbal Information	8	1,199	.08	.07	.10	.00	.10	.10	.05	.15
Language Development	-	-	-	-	-	-	-	-	-	-
Lexical Knowledge	16	5,666	.03	.10	.03	.11	-.11	.18	-.02	.09
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	-	-	-	-	-	-	-	-	-	-
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	1	201	.05	-	.11	-	-	-	-.15	.37
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	-	-	-	-	-	-	-	-	-	-
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	-	-	-	-	-	-	-	-	-	-
Life Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Mechanical Knowledge	1	47	.00	-	.00	-	-	-	-.32	.32
Natural Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Physical Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	-	-	-	-	-	-	-	-	-	-
Psychomotor Ability	1	40	.21	-	.28	-	-	-	-.05	.62
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	1	164	.04	-	.05	-	-	-	-.12	.23
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	1	149	.01	-	.01	-	-	-	-.16	.19

Fluid & Processing Speed	1	197	.04	-	.05	-	-	-	-.10	.21
Fluid & Visual Processing	4	746	.11	.10	.15	.08	.05	.24	.04	.25
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S229. Meta-analytic results describing cognitive abilities’ relations with conscientiousness--dependability.

Cognitive Ability Construct	Total K	Total N	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD$\hat{\rho}$</i>	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	81	31,994	.12	.15	.16	.19	-.08	.40	.12	.19
Fluid	65	48,126	-.05	.09	-.07	.11	-.21	.07	-.09	-.04
Induction	106	35,590	-.02	.09	-.03	.09	-.14	.09	-.04	-.01
General Sequential Reasoning	14	9,445	.02	.05	.03	.04	-.02	.08	.00	.06
Quantitative Reasoning	36	5,401	.05	.13	.07	.14	-.11	.24	.02	.11
Memory	1	291	.07	-	.10	-	-	-	-.04	.23
Long Term Storage and Retrieval	1	1,362	.02	-	.03	-	-	-	-.03	.10
Learning Efficiency	9	910	.04	.12	.06	.09	-.07	.18	-.04	.15
Associative Memory	-	-	-	-	-	-	-	-	-	-
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	2	6,150	.12	.08	.17	.11	.02	.31	.03	.30
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	3	1,559	.14	.14	.21	.18	-.03	.44	.02	.39
Ideational Fluency	5	4,760	.08	.06	.11	.07	.01	.20	.04	.17
Associational Fluency	1	212	.08	-	.11	-	-	-	-.05	.26
Expressional Fluency	2	376	-.14	.14	-.20	.17	-.42	.01	-.43	.03
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	2	376	-.08	.03	-.11	.00	-.11	-.11	-.17	-.05
Naming Facility and Speed of Lexical Access	2	1,634	-.08	.03	-.13	.00	-.13	-.13	-.18	-.08
Word Fluency	11	5,834	.08	.06	.12	.06	.05	.19	.08	.16
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	18	9,300	.11	.08	.15	.10	.03	.27	.11	.19
Working Memory Capacity	15	8,672	.06	.04	.08	.00	.08	.08	.06	.11
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	7	1,733	.11	.11	.15	.12	.00	.30	.06	.24
Visualization	18	2,382	.01	.11	.01	.09	-.11	.13	-.05	.07

Closure Speed	2	618	.08	.00	.11	.00	.11	.11	.10	.11
Flexibility of Closure	6	1,557	.09	.07	.12	.03	.08	.16	.06	.18
Spatial Scanning	-	-	-	-	-	-	-	-	-	-
Perceptual Illusions	4	980	.01	.07	.01	.04	-.04	.06	-.07	.08
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	2	1,509	.06	.04	.08	.02	.06	.11	.02	.14
Perceptual Speed	15	2,029	.04	.08	.06	.00	.06	.06	.01	.11
Scanning	2	383	.03	.01	.04	.00	.04	.04	.02	.06
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	2	312	.13	.06	.17	.00	.17	.17	.09	.26
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	-	-	-	-	-	-	-	-	-	-
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	1	50	-.11	-	-.15	-	-	-	-.46	.16
Mental Comparison Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge	4	946	.15	.20	.19	.25	-.13	.52	-.03	.41
Quantitative Ability	1	290	.06	-	.08	-	-	-	-.05	.21
Mathematics Knowledge	1	2,099	.12	-	.16	-	-	-	.11	.21
Mathematics Achievement	1	1,614	.16	-	.23	-	-	-	.17	.28
Verbal Ability	14	3,617	.18	.10	.24	.10	.10	.37	.18	.29
Reading and Writing	1	53	-.08	-	-.11	-	-	-	-.42	.20
Reading Comprehension	4	1,738	.06	.05	.08	.03	.04	.13	.02	.15
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	1	1,309	.09	-	.13	-	-	-	.06	.19
Writing Ability	2	115	-.05	.11	-.07	.00	-.07	-.07	-.23	.10
Spelling Ability	-	-	-	-	-	-	-	-	-	-
Comprehension Knowledge	4	1,368	.18	.10	.24	.11	.09	.38	.13	.35

General Verbal Information	4	772	.04	.16	.06	.19	-.18	.30	-.11	.23
Language Development	1	114	.07	-	.09	-	-	-	-.11	.30
Lexical Knowledge	24	8,009	.09	.12	.12	.15	-.07	.31	.06	.17
Listening Ability	1	326	.14	-	.20	-	-	-	.07	.33
Domain Specific Knowledge	1	178	.17	-	.29	-	-	-	.09	.50
Foreign Language Proficiency	1	326	.17	-	.23	-	-	-	.11	.35
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	2	240	.14	.15	.20	.17	-.01	.41	-.05	.44
Realistic Knowledge	1	178	.06	-	.10	-	-	-	-.10	.29
General Science Knowledge	-	-	-	-	-	-	-	-	-	-
Life Sciences Knowledge	1	62	-.17	-	-.26	-	-	-	-.57	.05
Mechanical Knowledge	13	2,428	.05	.08	.06	.05	-.01	.13	.01	.12
Natural Sciences Knowledge	1	1,614	.19	-	.27	-	-	-	.21	.33
Physical Sciences Knowledge	1	178	.16	-	.22	-	-	-	.06	.39
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	3	1,854	.27	.11	.39	.13	.22	.56	.25	.54
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	1	164	.02	-	.03	-	-	-	-.15	.21
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	1	396	.04	-	.05	-	-	-	-.06	.17
Acquired Knwl., Psychomotor Speed, & Vis. Proc. Fluid & Memory	-	-	-	-	-	-	-	-	-	-

Fluid & Processing Speed	1	278	.01	-	.01	-	-	-	-.12	.15
Fluid & Visual Processing	3	1,113	.04	.07	.06	.07	-.03	.14	-.04	.15
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S230. Meta-analytic results describing cognitive abilities’ relations with conscientiousness--cautiousness.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	72	380,929	-.06	.03	-.08	.04	-.12	-.03	-.08	-.07
Fluid	12	2,772	-.05	.13	-.07	.14	-.25	.11	-.14	.01
Induction	67	388,098	.00	.02	.00	.02	-.03	.03	-.01	.00
General Sequential Reasoning	38	12,720	-.10	.09	-.14	.09	-.25	-.03	-.17	-.11
Quantitative Reasoning	19	3,803	.05	.14	.06	.16	-.14	.26	-.01	.13
Memory	1	291	-.06	-	-.08	-	-	-	-.21	.05
Long Term Storage and Retrieval	-	-	-	-	-	-	-	-	-	-
Learning Efficiency	10	1,071	.00	.14	.01	.13	-.16	.17	-.09	.10
Associative Memory	2	456	.06	.02	.08	.00	.08	.08	.05	.10
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	2	1,679	.11	.02	.15	.00	.15	.15	.12	.18
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	3	1,642	.04	.16	.05	.21	-.21	.31	-.15	.25
Ideational Fluency	10	4,734	-.07	.07	-.10	.06	-.18	-.02	-.14	-.05
Associational Fluency	3	660	-.04	.08	-.06	.06	-.14	.02	-.16	.05
Expressional Fluency	3	660	-.09	.06	-.12	.00	-.12	-.12	-.20	-.04
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	8	362,578	-.06	.01	-.09	.00	-.09	-.09	-.09	-.08
Naming Facility and Speed of Lexical Access	2	1,663	-.03	.01	-.04	.00	-.04	-.04	-.07	-.02
Word Fluency	11	2,101	-.05	.09	-.07	.08	-.18	.03	-.14	-.01
Short Term Memory	1	361,327	.00	-	.00	-	-	-	.00	.00
Memory Span	26	370,942	-.03	.03	-.04	.03	-.08	.00	-.05	-.03
Working Memory Capacity	21	4,628	.02	.10	.02	.10	-.11	.15	-.02	.07
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	8	1,399	.04	.10	.06	.09	-.06	.17	-.02	.13
Visualization	36	368,330	-.02	.01	-.02	.00	-.03	-.02	-.03	-.02

Closure Speed	10	1,555	-.01	.08	-.02	.00	-.02	-.02	-.07	.04
Flexibility of Closure	1	114	-.03	-	-.04	-	-	-	-.24	.16
Spatial Scanning	2	310	.02	.08	.03	.03	.00	.06	-.10	.16
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	2	323	.04	.01	.05	.00	.05	.05	.03	.08
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	2	353	-.07	.11	-.09	.11	-.23	.05	-.26	.08
Perceptual Speed	35	364,311	-.04	.01	-.05	.00	-.06	-.05	-.06	-.05
Scanning	6	360,823	-.01	.00	-.01	.00	-.01	-.01	-.02	-.01
Pattern Recognition	2	420	-.11	.02	-.14	.00	-.14	-.14	-.17	-.11
Number Facility	6	360,555	.01	.00	.01	.00	.01	.01	.01	.02
Reaction and Decision Speed	2	279	-.09	.06	-.12	.00	-.12	-.12	-.21	-.04
Simple Reaction Time	6	804	-.08	.08	-.11	.00	-.11	-.11	-.19	-.03
Choice Reaction Time	1	53	-.03	-	-.04	-	-	-	-.35	.27
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	1	50	.02	-	.03	-	-	-	-.28	.33
Mental Comparison Speed	4	288	-.09	.06	-.12	.00	-.12	-.12	-.19	-.05
Acquired Knowledge	3	659	.05	.13	.06	.14	-.12	.24	-.10	.21
Quantitative Ability	3	357,775	-.05	.00	-.06	.00	-.06	-.06	-.06	-.06
Mathematics Knowledge	3	372,120	-.06	.01	-.07	.01	-.09	-.06	-.09	-.06
Mathematics Achievement	1	359,094	-.05	-	-.07	-	-	-	-.07	-.06
Verbal Ability	10	353,290	-.07	.01	-.08	.00	-.08	-.08	-.09	-.08
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	9	364,157	-.08	.02	-.10	.02	-.13	-.07	-.11	-.09
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	1	361,257	-.03	-	-.04	-	-	-	-.04	-.04
Writing Ability	1	62	.06	-	.08	-	-	-	-.19	.34
Spelling Ability	1	361,338	-.04	-	-.06	-	-	-	-.06	-.06
Comprehension Knowledge	13	366,505	-.02	.01	-.02	.01	-.04	-.01	-.03	-.02

General Verbal Information	14	365,368	-.11	.02	-.14	.02	-.17	-.11	-.15	-.13
Language Development	2	361,116	-.10	.01	-.13	.00	-.13	-.13	-.14	-.12
Lexical Knowledge	42	371,346	-.09	.03	-.12	.03	-.16	-.08	-.13	-.11
Listening Ability	1	326	.11	-	.15	-	-	-	.03	.28
Domain Specific Knowledge	1	356,022	-.09	-	-.14	-	-	-	-.15	-.14
Foreign Language Proficiency	1	326	.13	-	.17	-	-	-	.05	.28
Arts and Humanities	1	361,935	-.11	-	-.18	-	-	-	-.18	-.17
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	1	357,837	-.10	-	-.16	-	-	-	-.16	-.15
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	1	62	.12	-	.17	-	-	-	-.11	.45
Realistic Knowledge	1	362,744	-.07	-	-.10	-	-	-	-.10	-.09
General Science Knowledge	-	-	-	-	-	-	-	-	-	-
Life Sciences Knowledge	2	364,012	-.07	.00	-.10	.00	-.10	-.10	-.10	-.10
Mechanical Knowledge	1	362,822	-.05	-	-.07	-	-	-	-.07	-.06
Natural Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Physical Sciences Knowledge	1	366,932	-.05	-	-.07	-	-	-	-.08	-.07
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	2	361,997	-.09	.00	-.13	.00	-.13	-.13	-.13	-.12
Psychomotor Ability	2	420	-.03	.04	-.04	.00	-.04	-.04	-.11	.02
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	2	420	.02	.03	.02	.00	.02	.02	-.02	.07
Manual Dexterity	2	420	-.08	.04	-.11	.00	-.11	-.11	-.17	-.04
Psychomotor Speed	2	420	-.01	.01	-.02	.00	-.02	-.02	-.04	.00
Writing Speed	1	221	-.15	-	-.20	-	-	-	-.35	-.05
Compounds										
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	1	185	.20	-	.25	-	-	-	.10	.40
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	3	361,229	-.05	.01	-.07	.00	-.07	-.06	-.08	-.06
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	2	302	.04	.11	.06	.09	-.06	.17	-.11	.22

Fluid & Processing Speed	4	1,563	.05	.10	.06	.11	-.08	.20	-.04	.17
Fluid & Visual Processing	11	4,948	.00	.04	.00	.00	.00	.00	-.02	.03
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	1	229	.04	-	.05	-	-	-	-.09	.20
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S231. Meta-analytic results describing cognitive abilities’ relations with conscientiousness--order.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	56	390,003	.13	.06	.17	.07	.08	.25	.15	.18
Fluid	50	43,299	-.25	.07	-.32	.08	-.42	-.22	-.34	-.30
Induction	81	398,058	.07	.06	.09	.07	-.01	.18	.07	.10
General Sequential Reasoning	36	8,685	-.09	.07	-.12	.02	-.14	-.10	-.15	-.10
Quantitative Reasoning	23	7,550	.00	.10	.00	.11	-.14	.13	-.05	.04
Memory	1	291	.07	-	.09	-	-	-	-.03	.22
Long Term Storage and Retrieval	-	-	-	-	-	-	-	-	-	-
Learning Efficiency	9	911	.03	.06	.04	.00	.04	.04	.00	.08
Associative Memory	-	-	-	-	-	-	-	-	-	-
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	3	1,950	.09	.03	.11	.00	.11	.11	.07	.15
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	1	1,241	.09	-	.13	-	-	-	.06	.19
Ideational Fluency	5	1,730	-.01	.07	-.02	.07	-.10	.07	-.09	.06
Associational Fluency	2	433	-.05	.04	-.07	.00	-.07	-.07	-.13	-.01
Expressional Fluency	3	597	-.12	.17	-.16	.21	-.44	.11	-.39	.06
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	5	362,277	.10	.01	.14	.00	.14	.14	.13	.15
Naming Facility and Speed of Lexical Access	2	1,635	-.03	.01	-.05	.00	-.05	-.05	-.06	-.04
Word Fluency	8	1,210	-.06	.13	-.09	.14	-.27	.10	-.19	.02
Short Term Memory	1	361,327	.09	-	.11	-	-	-	.11	.11
Memory Span	22	365,067	.12	.01	.16	.00	.16	.16	.15	.16
Working Memory Capacity	16	3,269	-.01	.10	-.01	.09	-.12	.10	-.06	.04
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	6	1,058	.15	.07	.20	.00	.20	.20	.13	.26
Visualization	19	362,616	.02	.01	.03	.01	.02	.04	.03	.04

Closure Speed	6	845	-.01	.10	-.01	.06	-.09	.07	-.09	.08
Flexibility of Closure	1	164	-.16	-	-.21	-	-	-	-.37	-.05
Spatial Scanning	2	310	.14	.08	.18	.00	.18	.18	.06	.30
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	1	1,309	.06	-	.08	-	-	-	.02	.14
Perceptual Speed	22	362,327	.16	.01	.20	.00	.20	.20	.19	.20
Scanning	3	360,205	.13	.01	.18	.00	.18	.18	.17	.19
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	1	359,368	.16	-	.19	-	-	-	.19	.20
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	-	-	-	-	-	-	-	-	-	-
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	1	50	-.07	-	-.09	-	-	-	-.39	.21
Mental Comparison Speed	1	296	-.05	-	-.07	-	-	-	-.19	.06
Acquired Knowledge	2	648	-.15	.09	-.19	.08	-.30	-.09	-.32	-.07
Quantitative Ability	1	357,453	.10	-	.13	-	-	-	.13	.14
Mathematics Knowledge	1	369,865	.09	-	.12	-	-	-	.12	.12
Mathematics Achievement	3	359,753	.10	.01	.14	.00	.14	.14	.13	.15
Verbal Ability	10	352,767	.20	.02	.25	.01	.24	.27	.24	.27
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	6	363,642	.15	.01	.21	.00	.21	.21	.19	.22
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	2	362,566	.19	.01	.26	.00	.26	.26	.24	.28
Writing Ability	1	62	.11	-	.14	-	-	-	-.12	.40
Spelling Ability	1	361,338	.22	-	.30	-	-	-	.30	.30
Comprehension Knowledge	7	362,932	.20	.01	.25	.00	.25	.25	.24	.26

General Verbal Information	7	361,688	.16	.01	.20	.00	.20	.20	.19	.22
Language Development	1	361,002	.19	-	.25	-	-	-	.24	.25
Lexical Knowledge	27	367,234	.15	.03	.19	.03	.16	.23	.18	.21
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	1	356,022	.12	-	.20	-	-	-	.20	.21
Foreign Language Proficiency	1	326	.14	-	.18	-	-	-	.06	.29
Arts and Humanities	1	361,935	.17	-	.26	-	-	-	.25	.26
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	1	357,837	.12	-	.20	-	-	-	.19	.20
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	1	62	.06	-	.09	-	-	-	-.20	.37
Realistic Knowledge	1	362,744	.02	-	.02	-	-	-	.02	.03
General Science Knowledge	-	-	-	-	-	-	-	-	-	-
Life Sciences Knowledge	2	364,012	.12	.00	.18	.00	.18	.18	.17	.18
Mechanical Knowledge	2	364,552	.02	.00	.03	.00	.03	.03	.03	.03
Natural Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Physical Sciences Knowledge	1	366,932	.01	-	.01	-	-	-	.01	.02
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	2	361,997	.08	.00	.12	.00	.12	.12	.12	.12
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	2	385	-.08	.05	-.11	.00	-.11	-.11	-.19	-.03
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	1	360,673	-.02	-	-.02	-	-	-	-.03	-.02
Acquired Knwl., Psychomotor Speed, & Vis. Proc. Fluid & Memory	-	-	-	-	-	-	-	-	-	-

Fluid & Processing Speed	-	-	-	-	-	-	-	-	-	-
Fluid & Visual Processing	4	1,714	-.07	.12	-.09	.14	-.27	.10	-.21	.04
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S232. Meta-analytic results describing cognitive abilities’ relations with conscientiousness--procrastination avoidance.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	13	2,836	-.04	.10	-.05	.09	-.16	.07	-.10	.01
Fluid	1	697	.01	-	.01	-	-	-	-.07	.10
Induction	5	1,363	.04	.06	.06	.00	.06	.06	.00	.11
General Sequential Reasoning	-	-	-	-	-	-	-	-	-	-
Quantitative Reasoning	4	1,696	.07	.05	.08	.02	.06	.11	.03	.14
Memory	-	-	-	-	-	-	-	-	-	-
Long Term Storage and Retrieval	-	-	-	-	-	-	-	-	-	-
Learning Efficiency	-	-	-	-	-	-	-	-	-	-
Associative Memory	-	-	-	-	-	-	-	-	-	-
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	-	-	-	-	-	-	-	-	-	-
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	-	-	-	-	-	-	-	-	-	-
Ideational Fluency	-	-	-	-	-	-	-	-	-	-
Associational Fluency	-	-	-	-	-	-	-	-	-	-
Expressional Fluency	-	-	-	-	-	-	-	-	-	-
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	-	-	-	-	-	-	-	-	-	-
Naming Facility and Speed of Lexical Access	-	-	-	-	-	-	-	-	-	-
Word Fluency	-	-	-	-	-	-	-	-	-	-
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	-	-	-	-	-	-	-	-	-	-
Working Memory Capacity	1	309	.11	-	.14	-	-	-	.02	.26
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	1	158	-.17	-	-.23	-	-	-	-.39	-.06
Visualization	-	-	-	-	-	-	-	-	-	-

Closure Speed	-	-	-	-	-	-	-	-	-	-
Flexibility of Closure	-	-	-	-	-	-	-	-	-	-
Spatial Scanning	-	-	-	-	-	-	-	-	-	-
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	-	-	-	-	-	-	-	-	-	-
Perceptual Speed	1	158	-.21	-	-.26	-	-	-	-.42	-.10
Scanning	-	-	-	-	-	-	-	-	-	-
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	-	-	-	-	-	-	-	-	-	-
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	-	-	-	-	-	-	-	-	-	-
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge	-	-	-	-	-	-	-	-	-	-
Quantitative Ability	1	158	-.09	-	-.11	-	-	-	-.28	.05
Mathematics Knowledge	1	158	-.10	-	-.13	-	-	-	-.29	.04
Mathematics Achievement	1	9,812	.16	-	.22	-	-	-	.20	.24
Verbal Ability	3	10,049	.16	.04	.20	.04	.15	.24	.15	.24
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	1	158	-.05	-	-.07	-	-	-	-.25	.10
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	-	-	-	-	-	-	-	-	-	-
Writing Ability	-	-	-	-	-	-	-	-	-	-
Spelling Ability	-	-	-	-	-	-	-	-	-	-
Comprehension Knowledge	-	-	-	-	-	-	-	-	-	-

General Verbal Information	-	-	-	-	-	-	-	-	-	-
Language Development	-	-	-	-	-	-	-	-	-	-
Lexical Knowledge	3	1,028	-.02	.05	-.02	.00	-.02	-.02	-.09	.04
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	-	-	-	-	-	-	-	-	-	-
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	-	-	-	-	-	-	-	-	-	-
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	1	150	.48	-	.76	-	-	-	.60	.93
Life Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Mechanical Knowledge	-	-	-	-	-	-	-	-	-	-
Natural Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Physical Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	-	-	-	-	-	-	-	-	-	-
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	-	-	-	-	-	-	-	-	-	-

Fluid & Processing Speed	-	-	-	-	-	-	-	-	-	-
Fluid & Visual Processing	2	690	.05	.02	.06	.00	.06	.06	.03	.10
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S233. Meta-analytic results describing cognitive abilities’ relations with compound: routine seeking.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	30	11,759	-.11	.11	-.13	.12	-.28	.02	-.17	-.09
Fluid	6	1,126	-.12	.06	-.15	.00	-.15	-.15	-.20	-.10
Induction	16	5,030	-.17	.09	-.21	.09	-.32	-.10	-.26	-.17
General Sequential Reasoning	3	355	.06	.12	.08	.11	-.05	.22	-.07	.23
Quantitative Reasoning	1	244	-.13	-	-.16	-	-	-	-.29	-.03
Memory	1	141	-.22	-	-.29	-	-	-	-.46	-.11
Long Term Storage and Retrieval	-	-	-	-	-	-	-	-	-	-
Learning Efficiency	-	-	-	-	-	-	-	-	-	-
Associative Memory	-	-	-	-	-	-	-	-	-	-
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	1	2,041	-.12	-	-.16	-	-	-	-.20	-.11
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	1	100	.02	-	.03	-	-	-	-.19	.25
Ideational Fluency	-	-	-	-	-	-	-	-	-	-
Associational Fluency	-	-	-	-	-	-	-	-	-	-
Expressional Fluency	-	-	-	-	-	-	-	-	-	-
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	-	-	-	-	-	-	-	-	-	-
Naming Facility and Speed of Lexical Access	-	-	-	-	-	-	-	-	-	-
Word Fluency	2	284	-.09	.05	-.12	.00	-.12	-.12	-.20	-.04
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	2	320	-.01	.30	-.01	.36	-.47	.45	-.44	.43
Working Memory Capacity	-	-	-	-	-	-	-	-	-	-
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	-	-	-	-	-	-	-	-	-	-
Visualization	3	2,387	-.09	.06	-.11	.06	-.19	-.04	-.18	-.05

Closure Speed	1	266	-.21	-	-.27	-	-	-	-.39	-.14
Flexibility of Closure	4	1,279	-.15	.01	-.19	.00	-.19	-.19	-.20	-.18
Spatial Scanning	-	-	-	-	-	-	-	-	-	-
Perceptual Illusions	4	980	-.09	.04	-.11	.00	-.11	-.11	-.15	-.06
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	-	-	-	-	-	-	-	-	-	-
Perceptual Speed	3	2,361	-.15	.01	-.18	.00	-.18	-.18	-.19	-.16
Scanning	-	-	-	-	-	-	-	-	-	-
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	2	2,121	-.08	.01	-.09	.00	-.09	-.09	-.11	-.07
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	-	-	-	-	-	-	-	-	-	-
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge	2	416	-.12	.13	-.14	.14	-.32	.03	-.33	.04
Quantitative Ability	1	290	.03	-	.04	-	-	-	-.08	.15
Mathematics Knowledge	-	-	-	-	-	-	-	-	-	-
Mathematics Achievement	1	1,612	-.21	-	-.28	-	-	-	-.33	-.23
Verbal Ability	8	2,751	-.17	.05	-.21	.00	-.21	-.21	-.24	-.17
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	-	-	-	-	-	-	-	-	-	-
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	-	-	-	-	-	-	-	-	-	-
Writing Ability	-	-	-	-	-	-	-	-	-	-
Spelling Ability	-	-	-	-	-	-	-	-	-	-
Comprehension Knowledge	2	320	-.05	.27	-.06	.32	-.47	.35	-.45	.33

General Verbal Information	3	420	-.13	.21	-.17	.24	-.48	.14	-.42	.09
Language Development	-	-	-	-	-	-	-	-	-	-
Lexical Knowledge	9	5,634	-.19	.12	-.23	.14	-.41	-.05	-.31	-.15
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	-	-	-	-	-	-	-	-	-	-
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	-	-	-	-	-	-	-	-	-	-
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	-	-	-	-	-	-	-	-	-	-
Life Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Mechanical Knowledge	-	-	-	-	-	-	-	-	-	-
Natural Sciences Knowledge	1	1,612	-.23	-	-.31	-	-	-	-.36	-.25
Physical Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	1	1,612	-.29	-	-.39	-	-	-	-.44	-.34
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	-	-	-	-	-	-	-	-	-	-

Fluid & Processing Speed	-	-	-	-	-	-	-	-	-	-
Fluid & Visual Processing	-	-	-	-	-	-	-	-	-	-
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S234. Meta-analytic results describing cognitive abilities’ relations with compound: cold efficiency.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	-	-	-	-	-	-	-	-	-	-
Fluid	4	678	-.12	.12	-.17	.14	-.35	.01	-.32	-.02
Induction	9	9,632	.03	.10	.05	.14	-.13	.22	-.03	.12
General Sequential Reasoning	25	7,630	.09	.09	.14	.10	.01	.26	.10	.18
Quantitative Reasoning	-	-	-	-	-	-	-	-	-	-
Memory	-	-	-	-	-	-	-	-	-	-
Long Term Storage and Retrieval	-	-	-	-	-	-	-	-	-	-
Learning Efficiency	-	-	-	-	-	-	-	-	-	-
Associative Memory	-	-	-	-	-	-	-	-	-	-
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	-	-	-	-	-	-	-	-	-	-
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	-	-	-	-	-	-	-	-	-	-
Ideational Fluency	6	1,188	-.02	.07	-.04	.03	-.07	.00	-.11	.04
Associational Fluency	3	731	-.08	.02	-.12	.00	-.12	-.12	-.15	-.09
Expressional Fluency	6	987	-.04	.07	-.07	.00	-.07	-.07	-.14	.00
Sensitivity to Problems and Alt. Solutions	3	390	-.07	.02	-.10	.00	-.10	-.10	-.13	-.07
Originality and Creativity	6	1,188	-.08	.13	-.11	.16	-.32	.09	-.24	.02
Naming Facility and Speed of Lexical Access	2	462	.01	.13	.02	.19	-.23	.27	-.24	.28
Word Fluency	3	731	-.08	.07	-.12	.04	-.17	-.07	-.22	-.02
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	-	-	-	-	-	-	-	-	-	-
Working Memory Capacity	-	-	-	-	-	-	-	-	-	-
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	3	443	-.01	.08	-.02	.00	-.02	-.02	-.12	.09
Visualization	5	825	-.01	.07	-.02	.00	-.02	-.02	-.09	.05

Closure Speed	4	661	-.05	.10	-.08	.09	-.19	.04	-.20	.04
Flexibility of Closure	7	1,118	-.06	.07	-.08	.00	-.08	-.08	-.15	-.02
Spatial Scanning	-	-	-	-	-	-	-	-	-	-
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	-	-	-	-	-	-	-	-	-	-
Perceptual Speed	3	719	.05	.08	.07	.05	.00	.14	-.03	.17
Scanning	3	457	-.07	.06	-.11	.00	-.11	-.11	-.19	-.02
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	1	271	.08	-	.11	-	-	-	-.03	.25
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	-	-	-	-	-	-	-	-	-	-
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge	-	-	-	-	-	-	-	-	-	-
Quantitative Ability	2	452	.01	.09	.01	.08	-.10	.11	-.14	.15
Mathematics Knowledge	1	150	.21	-	.30	-	-	-	.12	.48
Mathematics Achievement	-	-	-	-	-	-	-	-	-	-
Verbal Ability	3	723	-.05	.06	-.06	.00	-.06	-.06	-.15	.02
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	-	-	-	-	-	-	-	-	-	-
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	-	-	-	-	-	-	-	-	-	-
Writing Ability	-	-	-	-	-	-	-	-	-	-
Spelling Ability	-	-	-	-	-	-	-	-	-	-
Comprehension Knowledge	1	298	-.08	-	-.12	-	-	-	-.25	.02

General Verbal Information	-	-	-	-	-	-	-	-	-	-
Language Development	-	-	-	-	-	-	-	-	-	-
Lexical Knowledge	3	514	-.20	.10	-.28	.08	-.38	-.17	-.41	-.15
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	-	-	-	-	-	-	-	-	-	-
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	-	-	-	-	-	-	-	-	-	-
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	-	-	-	-	-	-	-	-	-	-
Life Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Mechanical Knowledge	-	-	-	-	-	-	-	-	-	-
Natural Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Physical Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	-	-	-	-	-	-	-	-	-	-
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	2	385	.05	.02	.08	.00	.08	.08	.05	.12
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	-	-	-	-	-	-	-	-	-	-

Fluid & Processing Speed	-	-	-	-	-	-	-	-	-	-
Fluid & Visual Processing	2	439	.03	.04	.04	.00	.04	.04	-.03	.11
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	2	569	-.04	.01	-.05	.00	-.05	-.05	-.06	-.04
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S235. Meta-analytic results describing cognitive abilities’ relations with compound: judging-perceiving.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	57	27,733	-.08	.09	-.11	.10	-.24	.03	-.13	-.08
Fluid	10	8,407	-.13	.08	-.19	.09	-.31	-.07	-.25	-.13
Induction	42	10,321	-.09	.12	-.12	.14	-.31	.06	-.17	-.08
General Sequential Reasoning	15	2,967	-.05	.17	-.07	.21	-.34	.20	-.17	.03
Quantitative Reasoning	9	6,012	-.12	.09	-.16	.11	-.31	-.02	-.23	-.09
Memory	-	-	-	-	-	-	-	-	-	-
Long Term Storage and Retrieval	1	874	-.02	-	-.03	-	-	-	-.11	.05
Learning Efficiency	-	-	-	-	-	-	-	-	-	-
Associative Memory	3	973	-.02	.12	-.02	.14	-.21	.16	-.18	.13
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	1	874	-.03	-	-.04	-	-	-	-.12	.04
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	1	320	.00	-	.00	-	-	-	-.13	.13
Ideational Fluency	13	5,598	-.09	.08	-.13	.08	-.23	-.02	-.17	-.08
Associational Fluency	6	1,494	-.09	.14	-.12	.18	-.35	.10	-.25	.01
Expressional Fluency	8	1,430	-.12	.09	-.17	.07	-.27	-.08	-.25	-.10
Sensitivity to Problems and Alt. Solutions	3	390	-.23	.15	-.33	.16	-.54	-.12	-.53	-.13
Originality and Creativity	10	2,896	-.05	.09	-.07	.10	-.21	.06	-.14	.00
Naming Facility and Speed of Lexical Access	2	462	-.25	.09	-.40	.07	-.49	-.32	-.58	-.23
Word Fluency	3	731	-.17	.14	-.24	.17	-.45	-.02	-.42	-.05
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	3	239	.00	.05	.00	.00	.00	.00	-.07	.06
Working Memory Capacity	2	315	-.15	.21	-.21	.26	-.54	.13	-.53	.12
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	4	798	-.01	.15	-.01	.18	-.24	.23	-.18	.16
Visualization	11	1,166	-.03	.18	-.03	.21	-.31	.24	-.16	.09

Closure Speed	6	783	.02	.19	.03	.23	-.27	.32	-.15	.20
Flexibility of Closure	9	1,251	-.10	.09	-.14	.04	-.20	-.08	-.21	-.07
Spatial Scanning	-	-	-	-	-	-	-	-	-	-
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	1	874	-.05	-	-.07	-	-	-	-.15	.01
Auditory Processing	1	24	-.24	-	-.34	-	-	-	-.80	.13
Processing Speed	1	236	-.14	-	-.19	-	-	-	-.33	-.05
Perceptual Speed	7	772	.01	.22	.01	.27	-.33	.36	-.17	.20
Scanning	5	900	-.03	.07	-.04	.00	-.04	-.04	-.12	.03
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	2	99	-.02	.03	-.03	.00	-.03	-.03	-.07	.02
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	-	-	-	-	-	-	-	-	-	-
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	1	296	-.01	-	-.02	-	-	-	-.15	.12
Acquired Knowledge	5	798	-.14	.32	-.19	.41	-.71	.34	-.50	.12
Quantitative Ability	2	521	-.01	.13	-.01	.16	-.21	.19	-.22	.20
Mathematics Knowledge	2	122	-.16	.01	-.22	.00	-.22	-.22	-.23	-.21
Mathematics Achievement	1	296	-.06	-	-.09	-	-	-	-.22	.05
Verbal Ability	22	11,757	-.12	.06	-.16	.04	-.22	-.11	-.19	-.14
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	3	1,038	.00	.08	.00	.09	-.11	.12	-.11	.12
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	1	49	-.10	-	-.14	-	-	-	-.46	.18
Native Language Usage	2	122	-.18	.03	-.26	.00	-.26	-.26	-.31	-.22
Writing Ability	-	-	-	-	-	-	-	-	-	-
Spelling Ability	2	122	-.11	.10	-.16	.00	-.16	-.16	-.34	.01
Comprehension Knowledge	2	438	-.23	.27	-.31	.35	-.75	.14	-.73	.12

General Verbal Information	6	1,700	.05	.16	.06	.21	-.20	.33	-.08	.21
Language Development	-	-	-	-	-	-	-	-	-	-
Lexical Knowledge	24	2,963	-.04	.16	-.06	.18	-.29	.18	-.13	.02
Listening Ability	2	898	-.07	.05	-.10	.00	-.10	-.10	-.17	-.02
Domain Specific Knowledge	-	-	-	-	-	-	-	-	-	-
Foreign Language Proficiency	1	305	-.01	-	-.02	-	-	-	-.15	.11
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	-	-	-	-	-	-	-	-	-	-
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	-	-	-	-	-	-	-	-	-	-
Life Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Mechanical Knowledge	2	122	-.10	.21	-.14	.23	-.43	.16	-.48	.20
Natural Sciences Knowledge	2	521	-.05	.14	-.08	.18	-.31	.16	-.32	.16
Physical Sciences Knowledge	1	201	-.20	-	-.28	-	-	-	-.44	-.13
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	3	701	-.06	.09	-.08	.09	-.20	.04	-.21	.05
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	4	484	-.04	.16	-.06	.18	-.29	.17	-.24	.13
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	2	1,059	.00	.09	.00	.10	-.13	.13	-.14	.13
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knwl., Psychomotor Speed, & Vis. Proc. Fluid & Memory	-	-	-	-	-	-	-	-	-	-

Fluid & Processing Speed	-	-	-	-	-	-	-	-	-	-
Fluid & Visual Processing	-	-	-	-	-	-	-	-	-	-
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	1	298	-.25	-	-.34	-	-	-	-.47	-.22
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S236. Meta-analytic results describing cognitive abilities’ relations with compound: self control.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD$\hat{\rho}$</i>	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	55	36,714	.01	.08	.01	.08	-.09	.12	-.01	.04
Fluid	8	2,031	.02	.06	.02	.00	.02	.02	-.02	.07
Induction	41	8,275	-.02	.09	-.03	.07	-.11	.06	-.06	.00
General Sequential Reasoning	6	1,706	.00	.07	.00	.04	-.05	.05	-.06	.05
Quantitative Reasoning	2	600	-.11	.06	-.14	.00	-.14	-.14	-.22	-.06
Memory	-	-	-	-	-	-	-	-	-	-
Long Term Storage and Retrieval	-	-	-	-	-	-	-	-	-	-
Learning Efficiency	-	-	-	-	-	-	-	-	-	-
Associative Memory	-	-	-	-	-	-	-	-	-	-
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	-	-	-	-	-	-	-	-	-	-
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	1	100	-.28	-	-.38	-	-	-	-.58	-.17
Ideational Fluency	4	350	.05	.15	.07	.13	-.10	.24	-.09	.23
Associational Fluency	-	-	-	-	-	-	-	-	-	-
Expressional Fluency	-	-	-	-	-	-	-	-	-	-
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	4	350	.06	.13	.08	.09	-.04	.19	-.06	.22
Naming Facility and Speed of Lexical Access	-	-	-	-	-	-	-	-	-	-
Word Fluency	1	244	-.09	-	-.12	-	-	-	-.26	.01
Short Term Memory	1	124	.11	-	.14	-	-	-	-.05	.32
Memory Span	6	5,623	.04	.05	.04	.04	-.01	.10	.00	.08
Working Memory Capacity	5	560	.09	.09	.12	.00	.12	.12	.03	.20
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	1	93	.16	-	.20	-	-	-	-.01	.41
Visualization	6	1,089	.00	.09	-.01	.06	-.09	.08	-.08	.07

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Closure Speed	3	851	-.08	.05	-.10	.00	-.10	-.10	-.17	-.03
Flexibility of Closure	4	1,279	.02	.07	.03	.05	-.03	.09	-.04	.10
Spatial Scanning	2	310	-.03	.15	-.03	.15	-.23	.16	-.25	.18
Perceptual Illusions	4	980	-.03	.02	-.03	.00	-.03	-.03	-.06	-.01
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	-	-	-	-	-	-	-	-	-	-
Perceptual Speed	11	10,115	.05	.06	.07	.06	-.01	.15	.03	.10
Scanning	1	219	.02	-	.02	-	-	-	-.12	.17
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	-	-	-	-	-	-	-	-	-	-
Reaction and Decision Speed	2	4,852	-.03	.04	-.03	.04	-.09	.02	-.09	.03
Simple Reaction Time	4	481	.01	.12	.01	.11	-.13	.15	-.12	.15
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	1	4,623	-.03	-	-.04	-	-	-	-.07	-.01
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	1	68	.05	-	.06	-	-	-	-.19	.31
Mental Comparison Speed	3	238	-.03	.17	-.04	.16	-.25	.17	-.24	.17
Acquired Knowledge	4	9,078	.05	.04	.07	.04	.02	.11	.03	.10
Quantitative Ability	-	-	-	-	-	-	-	-	-	-
Mathematics Knowledge	-	-	-	-	-	-	-	-	-	-
Mathematics Achievement	1	1,614	.01	-	.02	-	-	-	-.03	.07
Verbal Ability	4	1,912	.01	.07	.01	.06	-.07	.10	-.06	.08
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	-	-	-	-	-	-	-	-	-	-
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	-	-	-	-	-	-	-	-	-	-
Writing Ability	-	-	-	-	-	-	-	-	-	-
Spelling Ability	-	-	-	-	-	-	-	-	-	-
Comprehension Knowledge	4	905	-.07	.13	-.08	.14	-.26	.10	-.22	.05

General Verbal Information	6	1,105	-.08	.09	-.10	.05	-.17	-.03	-.17	-.03
Language Development	-	-	-	-	-	-	-	-	-	-
Lexical Knowledge	14	10,523	.01	.07	.01	.07	-.08	.09	-.03	.04
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	-	-	-	-	-	-	-	-	-	-
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	1	4,362	.09	-	.12	-	-	-	.09	.15
Military & Police	-	-	-	-	-	-	-	-	-	-
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	-	-	-	-	-	-	-	-	-	-
Life Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Mechanical Knowledge	-	-	-	-	-	-	-	-	-	-
Natural Sciences Knowledge	1	1,614	.04	-	.06	-	-	-	.00	.11
Physical Sciences Knowledge	2	8,662	.08	.00	.10	.00	.10	.10	.10	.10
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	1	1,614	.05	-	.07	-	-	-	.02	.13
Psychomotor Ability	1	4,623	-.07	-	-.09	-	-	-	-.12	-.06
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	1	4,623	-.10	-	-.13	-	-	-	-.16	-.10
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	-	-	-	-	-	-	-	-	-	-

Fluid & Processing Speed	1	196	.06	-	.08	-	-	-	-.07	.23
Fluid & Visual Processing	8	9,695	.06	.04	.08	.03	.05	.11	.05	.11
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	1	229	.12	-	.15	-	-	-	.02	.29
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S237. Meta-analytic results describing cognitive abilities’ relations with compound: Type A.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	7	3,117	.02	.12	.03	.13	-.15	.20	-.06	.12
Fluid	-	-	-	-	-	-	-	-	-	-
Induction	7	4,320	-.02	.06	-.03	.06	-.10	.05	-.07	.02
General Sequential Reasoning	1	437	.10	-	.13	-	-	-	.03	.23
Quantitative Reasoning	-	-	-	-	-	-	-	-	-	-
Memory	-	-	-	-	-	-	-	-	-	-
Long Term Storage and Retrieval	-	-	-	-	-	-	-	-	-	-
Learning Efficiency	-	-	-	-	-	-	-	-	-	-
Associative Memory	-	-	-	-	-	-	-	-	-	-
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	-	-	-	-	-	-	-	-	-	-
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	-	-	-	-	-	-	-	-	-	-
Ideational Fluency	-	-	-	-	-	-	-	-	-	-
Associational Fluency	-	-	-	-	-	-	-	-	-	-
Expressional Fluency	-	-	-	-	-	-	-	-	-	-
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	-	-	-	-	-	-	-	-	-	-
Naming Facility and Speed of Lexical Access	-	-	-	-	-	-	-	-	-	-
Word Fluency	-	-	-	-	-	-	-	-	-	-
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	2	501	.07	.04	.10	.00	.10	.10	.04	.16
Working Memory Capacity	-	-	-	-	-	-	-	-	-	-
Attentional Executive Control	1	64	.00	-	.00	-	-	-	-.26	.26
Visual Processing	4	4,130	-.02	.03	-.02	.00	-.03	-.01	-.05	.01
Visualization	9	6,860	.05	.04	.06	.01	.05	.08	.04	.09

Closure Speed	2	501	.07	.04	.10	.00	.10	.10	.04	.16
Flexibility of Closure	-	-	-	-	-	-	-	-	-	-
Spatial Scanning	-	-	-	-	-	-	-	-	-	-
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	-	-	-	-	-	-	-	-	-	-
Perceptual Speed	1	437	.09	-	.11	-	-	-	.01	.21
Scanning	-	-	-	-	-	-	-	-	-	-
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	1	64	.00	-	.00	-	-	-	-.26	.26
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	9	6,405	.06	.04	.09	.00	.09	.09	.06	.12
Choice Reaction Time	8	6,303	.04	.05	.05	.05	-.01	.12	.01	.09
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge	-	-	-	-	-	-	-	-	-	-
Quantitative Ability	-	-	-	-	-	-	-	-	-	-
Mathematics Knowledge	-	-	-	-	-	-	-	-	-	-
Mathematics Achievement	-	-	-	-	-	-	-	-	-	-
Verbal Ability	1	30	-.23	-	-.29	-	-	-	-.65	.08
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	-	-	-	-	-	-	-	-	-	-
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	-	-	-	-	-	-	-	-	-	-
Writing Ability	-	-	-	-	-	-	-	-	-	-
Spelling Ability	-	-	-	-	-	-	-	-	-	-
Comprehension Knowledge	1	437	.17	-	.22	-	-	-	.12	.32

General Verbal Information	1	437	.14	-	.18	-	-	-	.08	.28
Language Development	-	-	-	-	-	-	-	-	-	-
Lexical Knowledge	1	81	-.09	-	-.12	-	-	-	-.35	.12
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	-	-	-	-	-	-	-	-	-	-
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	3	4,841	.01	.03	.02	.01	.01	.02	-.02	.05
Military & Police	-	-	-	-	-	-	-	-	-	-
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	-	-	-	-	-	-	-	-	-	-
Life Sciences Knowledge	8	6,356	.03	.05	.04	.05	-.03	.10	.00	.08
Mechanical Knowledge	-	-	-	-	-	-	-	-	-	-
Natural Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Physical Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	4	4,130	.04	.03	.06	.00	.06	.06	.03	.09
Social Studies Knowledge	-	-	-	-	-	-	-	-	-	-
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	3	4,710	-.03	.05	-.04	.06	-.12	.03	-.11	.02

Fluid & Processing Speed	-	-	-	-	-	-	-	-	-	-
Fluid & Visual Processing	-	-	-	-	-	-	-	-	-	-
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S238. Meta-analytic results describing cognitive abilities’ relations with compound: achievement via independence.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	44	14,096	.30	.17	.37	.19	.12	.61	.32	.42
Fluid	5	629	.24	.11	.32	.07	.22	.41	.22	.42
Induction	22	4,867	.18	.11	.24	.12	.09	.39	.19	.29
General Sequential Reasoning	5	676	-.06	.12	-.07	.11	-.22	.07	-.19	.05
Quantitative Reasoning	2	1,553	.07	.08	.09	.09	-.03	.21	-.03	.21
Memory	-	-	-	-	-	-	-	-	-	-
Long Term Storage and Retrieval	-	-	-	-	-	-	-	-	-	-
Learning Efficiency	-	-	-	-	-	-	-	-	-	-
Associative Memory	-	-	-	-	-	-	-	-	-	-
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	-	-	-	-	-	-	-	-	-	-
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	1	100	.19	-	.26	-	-	-	.04	.47
Ideational Fluency	2	319	-.01	.06	-.01	.00	-.01	-.01	-.11	.08
Associational Fluency	2	319	-.01	.09	-.02	.06	-.10	.06	-.16	.12
Expressional Fluency	2	319	-.09	.01	-.13	.00	-.13	-.13	-.15	-.11
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	1	216	-.04	-	-.05	-	-	-	-.20	.10
Naming Facility and Speed of Lexical Access	-	-	-	-	-	-	-	-	-	-
Word Fluency	4	619	.16	.10	.21	.07	.13	.30	.11	.32
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	2	320	-.02	.35	-.02	.43	-.57	.53	-.54	.49
Working Memory Capacity	-	-	-	-	-	-	-	-	-	-
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	1	150	.20	-	.25	-	-	-	.08	.41
Visualization	3	578	.20	.08	.25	.05	.19	.32	.15	.35

Closure Speed	1	266	.11	-	.14	-	-	-	.01	.27
Flexibility of Closure	4	1,279	.21	.02	.26	.00	.26	.26	.24	.29
Spatial Scanning	-	-	-	-	-	-	-	-	-	-
Perceptual Illusions	4	980	.14	.04	.17	.00	.17	.17	.14	.21
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	1	1,309	.11	-	.13	-	-	-	.08	.19
Perceptual Speed	3	470	.15	.07	.19	.00	.19	.19	.11	.27
Scanning	1	216	.08	-	.11	-	-	-	-.04	.25
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	2	312	.13	.06	.16	.00	.16	.16	.08	.24
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	-	-	-	-	-	-	-	-	-	-
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	1	296	-.01	-	-.01	-	-	-	-.14	.11
Acquired Knowledge	3	712	.21	.27	.26	.33	-.15	.68	-.06	.58
Quantitative Ability	2	400	.02	.25	.02	.30	-.36	.41	-.34	.39
Mathematics Knowledge	1	150	.24	-	.29	-	-	-	.14	.45
Mathematics Achievement	2	1,910	.30	.15	.41	.19	.16	.65	.17	.64
Verbal Ability	12	2,884	.34	.06	.42	.00	.42	.42	.38	.45
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	1	1,309	.10	-	.13	-	-	-	.07	.19
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	1	1,309	.07	-	.09	-	-	-	.03	.15
Writing Ability	-	-	-	-	-	-	-	-	-	-
Spelling Ability	-	-	-	-	-	-	-	-	-	-
Comprehension Knowledge	2	320	.12	.35	.15	.43	-.41	.70	-.37	.66

General Verbal Information	4	716	.08	.28	.11	.34	-.33	.54	-.18	.39
Language Development	-	-	-	-	-	-	-	-	-	-
Lexical Knowledge	11	5,238	.31	.19	.38	.23	.09	.68	.26	.50
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	-	-	-	-	-	-	-	-	-	-
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	-	-	-	-	-	-	-	-	-	-
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	-	-	-	-	-	-	-	-	-	-
Life Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Mechanical Knowledge	-	-	-	-	-	-	-	-	-	-
Natural Sciences Knowledge	1	1,614	.37	-	.50	-	-	-	.46	.55
Physical Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	1	1,614	.47	-	.65	-	-	-	.61	.70
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	-	-	-	-	-	-	-	-	-	-

Fluid & Processing Speed	-	-	-	-	-	-	-	-	-	-
Fluid & Visual Processing	-	-	-	-	-	-	-	-	-	-
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S239. Meta-analytic results describing cognitive abilities’ relations with compound: rugged individualism.

Cognitive Ability Construct	Total K	Total N	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD$\hat{\rho}$</i>	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	100	48,693	.09	.12	.11	.14	-.06	.29	.09	.14
Fluid	21	11,088	.04	.10	.06	.12	-.09	.21	.01	.10
Induction	42	11,405	.05	.09	.06	.09	-.05	.17	.03	.09
General Sequential Reasoning	16	2,438	.04	.11	.05	.09	-.07	.17	-.01	.11
Quantitative Reasoning	16	10,822	.12	.10	.15	.12	.00	.31	.10	.21
Memory	-	-	-	-	-	-	-	-	-	-
Long Term Storage and Retrieval	2	566	-.02	.01	-.02	.00	-.02	-.02	-.04	-.01
Learning Efficiency	-	-	-	-	-	-	-	-	-	-
Associative Memory	4	273	-.07	.14	-.09	.09	-.21	.03	-.24	.06
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	-	-	-	-	-	-	-	-	-	-
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	1	100	.05	-	.07	-	-	-	-.16	.30
Ideational Fluency	1	298	.16	-	.21	-	-	-	.09	.34
Associational Fluency	3	454	.10	.12	.14	.12	-.01	.29	-.01	.29
Expressional Fluency	3	454	.11	.10	.16	.08	.06	.26	.03	.29
Sensitivity to Problems and Alt. Solutions	3	454	.09	.04	.13	.00	.13	.13	.08	.18
Originality and Creativity	5	770	.06	.07	.09	.00	.09	.09	.01	.16
Naming Facility and Speed of Lexical Access	1	298	.10	-	.15	-	-	-	.01	.30
Word Fluency	9	1,017	.08	.08	.11	.00	.11	.11	.05	.18
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	11	2,047	.06	.11	.08	.11	-.06	.22	.00	.15
Working Memory Capacity	2	315	-.14	.03	-.17	.00	-.17	-.17	-.22	-.13
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	1	185	-.04	-	-.06	-	-	-	-.22	.10
Visualization	19	7,148	.11	.07	.14	.05	.08	.21	.11	.18

Closure Speed	12	2,623	.07	.09	.10	.08	-.01	.20	.04	.15
Flexibility of Closure	8	1,865	.04	.11	.05	.12	-.11	.21	-.04	.13
Spatial Scanning	3	385	.14	.08	.18	.00	.18	.18	.08	.28
Perceptual Illusions	4	980	.11	.03	.14	.00	.14	.14	.11	.16
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	1	24	.23	-	.32	-	-	-	-.13	.76
Processing Speed	1	100	.09	-	.12	-	-	-	-.09	.33
Perceptual Speed	15	3,084	.01	.13	.02	.13	-.15	.19	-.05	.09
Scanning	8	1,575	-.06	.09	-.08	.07	-.16	.01	-.15	-.01
Pattern Recognition	1	142	-.05	-	-.07	-	-	-	-.25	.11
Number Facility	7	461	.05	.18	.07	.16	-.13	.27	-.07	.21
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	-	-	-	-	-	-	-	-	-	-
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge	2	416	-.12	.02	-.15	.00	-.15	-.15	-.18	-.12
Quantitative Ability	2	115	.00	.09	-.01	.00	-.01	-.01	-.13	.12
Mathematics Knowledge	1	132	-.08	-	-.10	-	-	-	-.29	.08
Mathematics Achievement	2	1,756	.19	.07	.26	.08	.16	.36	.14	.38
Verbal Ability	23	10,923	.04	.16	.05	.19	-.19	.30	-.01	.12
Reading and Writing	1	53	.10	-	.13	-	-	-	-.16	.43
Reading Comprehension	5	571	.16	.11	.21	.09	.10	.33	.10	.33
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	3	524	.18	.03	.24	.00	.24	.24	.19	.28
Native Language Usage	2	416	-.02	.01	-.02	.00	-.02	-.02	-.05	.00
Writing Ability	1	53	.28	-	.36	-	-	-	.09	.63
Spelling Ability	4	518	.22	.05	.30	.00	.30	.30	.24	.36
Comprehension Knowledge	13	2,498	.09	.14	.11	.15	-.08	.31	.03	.20

General Verbal Information	14	6,452	.23	.15	.30	.19	.06	.54	.21	.39
Language Development	2	1,630	.01	.06	.02	.06	-.05	.09	-.06	.10
Lexical Knowledge	32	14,063	.14	.17	.18	.21	-.09	.46	.12	.25
Listening Ability	1	24	.26	-	.36	-	-	-	-.08	.81
Domain Specific Knowledge	-	-	-	-	-	-	-	-	-	-
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	-	-	-	-	-	-	-	-	-	-
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	2	772	.18	.09	.29	.10	.16	.42	.13	.45
Life Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Mechanical Knowledge	3	557	.18	.32	.24	.41	-.29	.77	-.16	.65
Natural Sciences Knowledge	1	1,614	.17	-	.24	-	-	-	.19	.30
Physical Sciences Knowledge	1	120	-.08	-	-.11	-	-	-	-.31	.09
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	1	1,614	.05	-	.08	-	-	-	.02	.14
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	1	185	.09	-	.12	-	-	-	-.04	.27
Acquired Knowledge & Processing Speed	1	108	.16	-	.20	-	-	-	.01	.40
Acquired Knowledge & Visual Processing	1	120	-.09	-	-.12	-	-	-	-.31	.08
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	1	153	.02	-	.02	-	-	-	-.15	.20

Fluid & Processing Speed	1	142	.10	-	.13	-	-	-	-.05	.31
Fluid & Visual Processing	-	-	-	-	-	-	-	-	-	-
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	1	298	.17	-	.23	-	-	-	.10	.35
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S240. Meta-analytic results describing cognitive abilities’ relations with extraversion.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD$\hat{\rho}$</i>	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	502	393,929	-.01	.09	-.02	.10	-.14	.11	-.02	-.01
Fluid	142	111,405	.01	.07	.01	.08	-.10	.11	.00	.02
Induction	394	434,765	.00	.08	.00	.10	-.13	.12	-.01	.00
General Sequential Reasoning	93	93,879	-.05	.06	-.06	.06	-.14	.02	-.07	-.05
Quantitative Reasoning	105	163,916	.00	.12	.00	.14	-.18	.18	-.02	.02
Memory	7	1,394	.06	.06	.08	.00	.08	.08	.03	.13
Long Term Storage and Retrieval	11	8,291	.00	.06	-.01	.06	-.08	.07	-.04	.03
Learning Efficiency	11	3,898	.02	.06	.02	.04	-.03	.07	-.02	.06
Associative Memory	14	4,691	-.02	.07	-.02	.06	-.10	.06	-.06	.02
Meaningful Memory	9	4,356	.01	.04	.01	.00	.01	.01	-.02	.04
Episodic Memory	7	4,371	.04	.07	.05	.08	-.05	.16	-.01	.11
Free Recall Memory	20	28,733	.07	.05	.08	.05	.02	.15	.06	.11
Long Term Visual Memory	6	1,807	.02	.04	.02	.00	.02	.02	-.01	.06
Retrieval Fluency	15	2,768	.10	.14	.13	.15	-.07	.32	.05	.20
Ideational Fluency	39	21,168	.13	.08	.16	.09	.05	.28	.13	.19
Associational Fluency	11	4,123	.08	.08	.10	.08	-.01	.20	.05	.15
Expressional Fluency	5	1,156	.06	.07	.08	.04	.03	.14	.01	.15
Sensitivity to Problems and Alt. Solutions	2	398	.10	.06	.13	.00	.13	.13	.04	.22
Originality and Creativity	27	4,938	.09	.17	.12	.20	-.13	.38	.05	.19
Naming Facility and Speed of Lexical Access	20	21,717	.05	.06	.08	.07	-.01	.17	.04	.11
Word Fluency	27	23,405	.06	.04	.07	.03	.03	.11	.06	.09
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	74	40,991	.06	.06	.08	.05	.00	.15	.06	.09
Working Memory Capacity	35	16,120	.02	.06	.02	.05	-.04	.08	.00	.04
Attentional Executive Control	9	7,195	-.05	.07	-.06	.08	-.15	.04	-.11	-.01
Visual Processing	36	14,354	-.02	.07	-.03	.06	-.11	.06	-.05	.00
Visualization	107	116,550	-.02	.05	-.03	.05	-.09	.03	-.04	-.02

Closure Speed	31	5,266	.02	.12	.02	.11	-.12	.16	-.02	.06
Flexibility of Closure	56	82,085	-.03	.04	-.04	.03	-.08	.01	-.05	-.03
Spatial Scanning	12	2,983	.00	.10	-.01	.09	-.13	.11	-.06	.05
Perceptual Illusions	4	980	.02	.02	.03	.00	.03	.03	.00	.05
Visual Memory	14	5,054	.01	.05	.01	.01	.00	.03	-.02	.04
Auditory Processing	3	502	-.06	.04	-.08	.00	-.08	-.08	-.13	-.03
Processing Speed	4	708	-.03	.13	-.04	.13	-.21	.13	-.17	.10
Perceptual Speed	86	23,240	.03	.09	.04	.08	-.06	.14	.02	.06
Scanning	29	89,980	.02	.04	.02	.04	-.03	.08	.01	.04
Pattern Recognition	4	2,723	.03	.03	.04	.00	.04	.04	.02	.07
Number Facility	33	10,026	.02	.10	.02	.10	-.11	.16	-.01	.06
Reaction and Decision Speed	1	229	.05	-	.06	-	-	-	-.07	.20
Simple Reaction Time	17	7,668	.01	.05	.02	.03	-.03	.06	-.01	.05
Choice Reaction Time	10	7,022	.00	.04	.00	.03	-.04	.04	-.03	.03
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	6	2,291	-.02	.05	-.02	.00	-.02	-.02	-.06	.01
Mental Comparison Speed	5	599	.01	.13	.02	.12	-.13	.17	-.10	.14
Acquired Knowledge	14	2,993	.00	.10	.00	.08	-.11	.10	-.05	.05
Quantitative Ability	12	4,875	-.07	.05	-.09	.02	-.12	-.06	-.12	-.06
Mathematics Knowledge	12	77,489	-.14	.02	-.17	.02	-.20	-.15	-.19	-.16
Mathematics Achievement	8	14,610	.00	.03	.00	.03	-.04	.04	-.03	.02
Verbal Ability	67	55,584	-.03	.09	-.03	.11	-.17	.10	-.05	-.01
Reading and Writing	4	700	-.08	.06	-.10	.00	-.10	-.10	-.15	-.04
Reading Comprehension	41	8,408	.00	.10	.00	.09	-.12	.12	-.03	.03
Reading Decoding	4	1,980	-.08	.06	-.09	.05	-.15	-.02	-.15	-.03
Reading Speed	4	693	-.06	.10	-.07	.09	-.19	.04	-.18	.03
Native Language Usage	14	2,249	.10	.12	.14	.11	-.01	.28	.07	.20
Writing Ability	1	62	.00	-	.00	-	-	-	-.26	.26
Spelling Ability	15	2,106	.08	.12	.11	.10	-.03	.24	.04	.17
Comprehension Knowledge	38	8,871	.08	.10	.10	.09	-.01	.21	.07	.13

General Verbal Information	55	11,871	.03	.11	.03	.11	-.10	.17	.00	.06
Language Development	6	3,685	-.01	.05	-.01	.04	-.06	.04	-.05	.03
Lexical Knowledge	150	108,807	-.06	.07	-.07	.07	-.17	.02	-.08	-.06
Listening Ability	3	1,224	.02	.07	.03	.07	-.06	.12	-.06	.12
Domain Specific Knowledge	5	902	-.06	.11	-.10	.13	-.27	.06	-.23	.03
Foreign Language Proficiency	3	1,455	.03	.04	.04	.00	.04	.04	-.01	.09
Arts and Humanities	3	1,570	.08	.09	.12	.12	-.03	.28	-.01	.26
Behavioral Content Knowledge	8	2,030	-.03	.08	-.05	.09	-.17	.06	-.15	.04
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	4	11,382	-.04	.01	-.06	.00	-.06	-.06	-.06	-.05
Military & Police	3	406	-.01	.15	-.01	.16	-.21	.19	-.20	.17
Realistic Knowledge	1	178	.09	-	.14	-	-	-	-.04	.31
General Science Knowledge	8	73,936	-.13	.02	-.19	.00	-.19	-.19	-.21	-.17
Life Sciences Knowledge	12	6,664	-.05	.06	-.06	.06	-.14	.01	-.10	-.02
Mechanical Knowledge	5	1,036	-.05	.07	-.07	.00	-.07	-.07	-.13	.00
Natural Sciences Knowledge	3	2,135	-.02	.07	-.02	.08	-.13	.08	-.11	.07
Physical Sciences Knowledge	6	72,629	-.03	.01	-.04	.00	-.04	-.03	-.05	-.03
compound (Nat. Sci. Knowl. & Phy. Sci. Knowl.)	4	6,532	.01	.02	.01	.00	.01	.01	.00	.03
Social Studies Knowledge	10	4,025	-.05	.08	-.07	.09	-.18	.04	-.13	-.01
Psychomotor Ability	3	555	.11	.01	.14	.00	.14	.14	.13	.15
Aiming	3	359	-.13	.07	-.15	.00	-.15	-.15	-.24	-.07
Finger Dexterity	3	593	.05	.04	.07	.00	.07	.07	.02	.11
Manual Dexterity	4	703	.03	.10	.04	.08	-.07	.14	-.06	.14
Psychomotor Speed	2	420	.12	.10	.15	.09	.04	.27	.00	.30
Writing Speed	3	257	-.05	.19	-.07	.21	-.34	.20	-.31	.17
Compounds										
Acquired Knowledge & Auditory Processing	2	322	.23	.18	.28	.21	.01	.56	.01	.56
Acquired Knowledge & Memory	2	1,059	-.07	.02	-.08	.00	-.08	-.08	-.10	-.06
Acquired Knowledge & Processing Speed	1	166	.03	-	.04	-	-	-	-.12	.19
Acquired Knowledge & Visual Processing	6	76,219	-.03	.02	-.04	.02	-.06	-.02	-.05	-.02
Acquired Knowl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	8	8,912	-.05	.06	-.06	.06	-.14	.02	-.10	-.02

Fluid & Processing Speed	11	5,946	-.03	.06	-.04	.05	-.10	.03	-.07	.00
Fluid & Visual Processing	26	9,709	.05	.09	.06	.09	-.06	.18	.03	.10
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	7	2,233	.03	.08	.04	.08	-.06	.14	-.02	.11
Processing Speed & Reaction and Decision Spd.	1	229	.04	-	.05	-	-	-	-.09	.19
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S241. Meta-analytic results describing cognitive abilities’ relations with extraversion-enthusiasm.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	32	11,760	.09	.07	.11	.06	.03	.18	.08	.13
Fluid	3	1,687	.00	.05	.00	.03	-.03	.04	-.05	.06
Induction	16	15,208	.05	.03	.06	.01	.04	.08	.04	.08
General Sequential Reasoning	28	7,941	.05	.08	.07	.07	-.02	.16	.04	.10
Quantitative Reasoning	18	30,193	.15	.04	.19	.04	.14	.24	.17	.21
Memory	1	2,063	.21	-	.29	-	-	-	.24	.33
Long Term Storage and Retrieval	8	12,750	.08	.03	.11	.02	.09	.13	.09	.13
Learning Efficiency	1	153	.01	-	.02	-	-	-	-.16	.20
Associative Memory	3	179	.06	.08	.07	.00	.07	.07	-.02	.16
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	21	38,638	.14	.03	.19	.02	.17	.21	.17	.20
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	4	1,985	.08	.06	.11	.05	.04	.18	.04	.18
Ideational Fluency	5	4,206	.05	.03	.07	.00	.07	.07	.04	.09
Associational Fluency	1	2,267	.14	-	.18	-	-	-	.13	.22
Expressional Fluency	-	-	-	-	-	-	-	-	-	-
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	3	238	.00	.13	.00	.09	-.12	.12	-.17	.17
Naming Facility and Speed of Lexical Access	23	39,554	.12	.06	.18	.07	.08	.27	.15	.21
Word Fluency	11	15,790	.11	.06	.15	.07	.06	.24	.11	.19
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	32	43,618	.13	.05	.17	.06	.10	.25	.15	.19
Working Memory Capacity	23	63,416	.11	.02	.14	.02	.11	.16	.12	.15
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	1	675	.00	-	.00	-	-	-	-.08	.08
Visualization	15	1,501	.08	.10	.10	.00	.10	.10	.05	.15

Closure Speed	6	743	.10	.07	.13	.00	.13	.13	.07	.19
Flexibility of Closure	-	-	-	-	-	-	-	-	-	-
Spatial Scanning	-	-	-	-	-	-	-	-	-	-
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	-	-	-	-	-	-	-	-	-	-
Perceptual Speed	9	980	.05	.11	.07	.07	-.02	.16	-.01	.14
Scanning	8	11,226	.13	.02	.17	.00	.17	.17	.15	.19
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	3	179	.10	.13	.12	.00	.12	.12	-.03	.28
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	4	329	.15	.08	.21	.00	.21	.21	.12	.31
Choice Reaction Time	5	5,106	.05	.05	.07	.05	.00	.13	.02	.12
Decision Time	5	5,187	.11	.04	.15	.02	.11	.18	.11	.18
Movement Time	5	5,187	.11	.05	.16	.06	.08	.23	.10	.21
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	3	238	.07	.07	.10	.00	.10	.10	.01	.18
Acquired Knowledge	1	178	-.04	-	-.05	-	-	-	-.21	.10
Quantitative Ability	-	-	-	-	-	-	-	-	-	-
Mathematics Knowledge	-	-	-	-	-	-	-	-	-	-
Mathematics Achievement	-	-	-	-	-	-	-	-	-	-
Verbal Ability	-	-	-	-	-	-	-	-	-	-
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	5	1,433	.00	.07	.01	.06	-.07	.08	-.07	.08
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	-	-	-	-	-	-	-	-	-	-
Writing Ability	-	-	-	-	-	-	-	-	-	-
Spelling Ability	-	-	-	-	-	-	-	-	-	-
Comprehension Knowledge	9	1,236	.11	.12	.14	.11	.01	.28	.06	.23

General Verbal Information	8	1,062	.16	.10	.20	.07	.12	.29	.13	.28
Language Development	-	-	-	-	-	-	-	-	-	-
Lexical Knowledge	16	2,275	.11	.11	.14	.09	.02	.26	.08	.20
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	1	178	-.03	-	-.05	-	-	-	-.25	.15
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	1	178	.02	-	.02	-	-	-	-.14	.19
Realistic Knowledge	1	178	-.01	-	-.01	-	-	-	-.20	.18
General Science Knowledge	-	-	-	-	-	-	-	-	-	-
Life Sciences Knowledge	1	2,067	.12	-	.17	-	-	-	.12	.22
Mechanical Knowledge	1	263	.03	-	.04	-	-	-	-.09	.17
Natural Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Physical Sciences Knowledge	1	178	-.05	-	-.07	-	-	-	-.23	.09
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	1	178	-.02	-	-.02	-	-	-	-.20	.15
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	-	-	-	-	-	-	-	-	-	-

Fluid & Processing Speed	-	-	-	-	-	-	-	-	-	-
Fluid & Visual Processing	7	1,418	.01	.06	.01	.00	.01	.01	-.04	.06
Memory & Processing Speed	1	2,064	.17	-	.21	-	-	-	.17	.25
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S242. Meta-analytic results describing cognitive abilities’ relations with extraversion-assertiveness.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	11	2,061	-.02	.12	-.03	.12	-.18	.12	-.10	.05
Fluid	41	41,668	.00	.05	.00	.04	-.05	.06	-.01	.02
Induction	41	18,885	-.04	.05	-.05	.04	-.10	-.01	-.07	-.03
General Sequential Reasoning	5	127	.06	.17	.08	.00	.08	.08	-.08	.24
Quantitative Reasoning	8	281	-.14	.22	-.17	.18	-.39	.06	-.33	-.01
Memory	-	-	-	-	-	-	-	-	-	-
Long Term Storage and Retrieval	1	2,333	.01	-	.01	-	-	-	-.04	.05
Learning Efficiency	1	153	.08	-	.10	-	-	-	-.07	.27
Associative Memory	-	-	-	-	-	-	-	-	-	-
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	1	2,341	.09	-	.12	-	-	-	.07	.16
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	-	-	-	-	-	-	-	-	-	-
Ideational Fluency	3	238	.20	.21	.26	.23	-.04	.55	.00	.52
Associational Fluency	1	2,338	.12	-	.16	-	-	-	.11	.20
Expressional Fluency	-	-	-	-	-	-	-	-	-	-
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	3	238	.19	.22	.24	.25	-.07	.56	-.03	.52
Naming Facility and Speed of Lexical Access	1	2,346	.04	-	.06	-	-	-	.02	.11
Word Fluency	1	2,338	.12	-	.15	-	-	-	.11	.20
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	1	2,340	.08	-	.10	-	-	-	.06	.14
Working Memory Capacity	4	392	.06	.07	.07	.00	.07	.07	.00	.14
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	4	170	.05	.18	.06	.10	-.07	.19	-.12	.25
Visualization	4	425	.07	.13	.08	.10	-.04	.21	-.04	.21

Closure Speed	-	-	-	-	-	-	-	-	-	-
Flexibility of Closure	-	-	-	-	-	-	-	-	-	-
Spatial Scanning	-	-	-	-	-	-	-	-	-	-
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	-	-	-	-	-	-	-	-	-	-
Perceptual Speed	3	238	.08	.17	.10	.16	-.11	.30	-.10	.29
Scanning	1	91	.00	-	.00	-	-	-	-.22	.22
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	-	-	-	-	-	-	-	-	-	-
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	4	329	.03	.07	.05	.00	.05	.05	-.03	.12
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	3	238	.04	.16	.05	.15	-.14	.25	-.14	.25
Acquired Knowledge	-	-	-	-	-	-	-	-	-	-
Quantitative Ability	-	-	-	-	-	-	-	-	-	-
Mathematics Knowledge	-	-	-	-	-	-	-	-	-	-
Mathematics Achievement	-	-	-	-	-	-	-	-	-	-
Verbal Ability	4	180	-.20	.22	-.24	.20	-.50	.02	-.46	-.02
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	-	-	-	-	-	-	-	-	-	-
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	-	-	-	-	-	-	-	-	-	-
Writing Ability	-	-	-	-	-	-	-	-	-	-
Spelling Ability	-	-	-	-	-	-	-	-	-	-
Comprehension Knowledge	-	-	-	-	-	-	-	-	-	-

General Verbal Information	-	-	-	-	-	-	-	-	-	-
Language Development	-	-	-	-	-	-	-	-	-	-
Lexical Knowledge	5	647	.00	.11	.00	.08	-.11	.10	-.10	.10
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	-	-	-	-	-	-	-	-	-	-
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	3	180	.01	.11	.01	.00	.01	.01	-.12	.15
Military & Police	-	-	-	-	-	-	-	-	-	-
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	-	-	-	-	-	-	-	-	-	-
Life Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Mechanical Knowledge	-	-	-	-	-	-	-	-	-	-
Natural Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Physical Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	3	165	.15	.09	.20	.00	.20	.20	.09	.31
Social Studies Knowledge	-	-	-	-	-	-	-	-	-	-
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	3	176	.03	.19	.03	.17	-.19	.26	-.19	.26

Fluid & Processing Speed	-	-	-	-	-	-	-	-	-	-
Fluid & Visual Processing	4	427	.08	.15	.10	.14	-.08	.28	-.05	.26
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S243. Meta-analytic results describing cognitive abilities’ relations with extraversion--dominance.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	159	418,630	.09	.04	.11	.04	.06	.16	.10	.11
Fluid	83	75,193	.05	.05	.06	.05	.00	.12	.05	.07
Induction	201	597,400	.03	.03	.03	.04	-.01	.08	.03	.04
General Sequential Reasoning	58	15,437	.07	.07	.09	.03	.05	.13	.07	.11
Quantitative Reasoning	54	90,985	-.01	.05	-.01	.06	-.09	.07	-.02	.01
Memory	2	8,563	.03	.05	.03	.06	-.04	.11	-.04	.11
Long Term Storage and Retrieval	3	457	.01	.16	.01	.19	-.23	.25	-.20	.22
Learning Efficiency	9	916	.03	.07	.03	.00	.03	.03	-.02	.09
Associative Memory	5	473	.05	.12	.07	.08	-.03	.16	-.05	.18
Meaningful Memory	1	138	-.10	-	-.13	-	-	-	-.32	.05
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	1	275	.14	-	.19	-	-	-	.06	.32
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	3	438	.21	.07	.29	.00	.29	.29	.21	.38
Ideational Fluency	12	4,569	.12	.09	.16	.09	.04	.28	.10	.21
Associational Fluency	7	1,206	.07	.08	.09	.05	.03	.15	.02	.16
Expressional Fluency	8	1,546	.10	.08	.14	.05	.07	.21	.07	.20
Sensitivity to Problems and Alt. Solutions	3	454	.18	.04	.24	.00	.24	.24	.19	.28
Originality and Creativity	14	362,805	.06	.01	.09	.00	.09	.09	.08	.09
Naming Facility and Speed of Lexical Access	3	344	.14	.08	.22	.00	.22	.22	.10	.34
Word Fluency	19	2,743	.10	.09	.14	.03	.10	.17	.09	.18
Short Term Memory	1	361,327	.02	-	.03	-	-	-	.02	.03
Memory Span	31	378,029	.07	.01	.09	.01	.08	.10	.08	.09
Working Memory Capacity	17	2,727	.06	.14	.07	.15	-.11	.26	.00	.15
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	17	9,372	.04	.06	.05	.06	-.02	.13	.02	.09
Visualization	55	451,446	.01	.02	.01	.02	-.01	.04	.01	.02

Closure Speed	18	10,709	.02	.05	.03	.04	-.02	.08	.00	.05
Flexibility of Closure	14	74,510	.01	.01	.01	.01	.00	.02	.01	.02
Spatial Scanning	8	9,382	.03	.04	.04	.04	-.01	.09	.01	.07
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	4	1,266	.05	.04	.06	.00	.06	.06	.02	.11
Auditory Processing	2	478	.01	.01	.01	.00	.01	.01	.00	.02
Processing Speed	3	406	-.02	.05	-.02	.00	-.02	-.02	-.08	.05
Perceptual Speed	45	379,332	.07	.02	.08	.02	.06	.11	.08	.09
Scanning	18	443,462	.03	.04	.04	.06	-.04	.11	.01	.06
Pattern Recognition	2	420	.02	.04	.03	.00	.03	.03	-.04	.10
Number Facility	18	371,566	.03	.06	.04	.08	-.06	.14	.01	.07
Reaction and Decision Speed	1	4,623	-.03	-	-.04	-	-	-	-.07	-.01
Simple Reaction Time	5	8,601	-.03	.04	-.04	.04	-.09	.01	-.08	.00
Choice Reaction Time	1	8,272	.00	-	.00	-	-	-	-.02	.02
Decision Time	2	12,895	-.04	.01	-.06	.00	-.06	-.06	-.07	-.05
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	3	238	.11	.18	.14	.19	-.10	.38	-.08	.37
Acquired Knowledge	5	4,894	.10	.05	.12	.04	.07	.17	.08	.16
Quantitative Ability	4	358,017	.12	.01	.15	.00	.15	.15	.14	.15
Mathematics Knowledge	6	444,593	.09	.09	.11	.11	-.03	.25	.04	.18
Mathematics Achievement	4	361,499	.11	.01	.14	.00	.14	.14	.13	.16
Verbal Ability	26	355,749	.08	.01	.10	.01	.09	.12	.10	.11
Reading and Writing	3	96	.01	.29	.01	.30	-.37	.39	-.35	.37
Reading Comprehension	19	364,326	.07	.01	.10	.00	.10	.10	.09	.10
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	5	939	.07	.07	.09	.00	.09	.09	.03	.16
Native Language Usage	5	362,340	.07	.01	.09	.01	.08	.11	.08	.11
Writing Ability	2	115	.01	.20	.01	.19	-.23	.25	-.28	.30
Spelling Ability	5	362,032	.09	.01	.12	.00	.12	.12	.11	.13
Comprehension Knowledge	26	368,415	.06	.02	.07	.02	.05	.10	.06	.08

General Verbal Information	21	365,973	.09	.01	.12	.00	.12	.12	.11	.12
Language Development	2	361,116	.11	.00	.14	.00	.14	.14	.14	.14
Lexical Knowledge	58	446,489	.06	.05	.08	.06	.01	.15	.07	.10
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	3	356,520	.08	.01	.13	.00	.13	.13	.12	.14
Foreign Language Proficiency	1	305	-.05	-	-.06	-	-	-	-.18	.06
Arts and Humanities	3	363,385	.10	.01	.16	.00	.16	.16	.14	.17
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	1	357,837	.08	-	.12	-	-	-	.12	.13
Occupational	3	8,619	.01	.01	.02	.00	.02	.02	.00	.04
Military & Police	2	240	.06	.19	.08	.23	-.22	.38	-.23	.38
Realistic Knowledge	2	362,922	.03	.00	.05	.00	.05	.05	.05	.05
General Science Knowledge	8	73,777	-.06	.02	-.10	.02	-.12	-.07	-.12	-.08
Life Sciences Knowledge	3	364,203	.07	.01	.09	.00	.09	.09	.08	.10
Mechanical Knowledge	16	364,650	.01	.01	.02	.01	.01	.03	.01	.02
Natural Sciences Knowledge	1	359	.10	-	.14	-	-	-	.02	.26
Physical Sciences Knowledge	6	443,817	.03	.01	.04	.02	.02	.06	.03	.05
compound (Nat. Sci. Knowl. & Phy. Sci. Knowl.)	4	6,927	.06	.01	.08	.00	.08	.08	.06	.09
Social Studies Knowledge	8	363,395	.07	.01	.10	.00	.10	.10	.09	.10
Psychomotor Ability	3	5,043	-.07	.05	-.09	.05	-.15	-.03	-.15	-.03
Aiming	2	294	-.02	.04	-.02	.00	-.02	-.02	-.08	.04
Finger Dexterity	2	420	.02	.05	.03	.00	.03	.03	-.05	.11
Manual Dexterity	3	558	.06	.03	.08	.00	.08	.08	.05	.11
Psychomotor Speed	3	5,043	-.07	.05	-.09	.05	-.16	-.03	-.15	-.04
Writing Speed	1	221	.08	-	.10	-	-	-	-.05	.25
Compounds										
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	1	228	-.14	-	-.17	-	-	-	-.31	-.04
Acquired Knowledge & Processing Speed	1	108	.26	-	.33	-	-	-	.14	.51
Acquired Knowledge & Visual Processing	4	433,015	.02	.00	.03	.00	.03	.04	.03	.04
Acquired Knowl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	5	8,793	.00	.02	.00	.00	.00	.00	-.02	.02

Fluid & Processing Speed	9	2,497	.10	.07	.13	.05	.07	.20	.08	.19
Fluid & Visual Processing	15	10,506	.06	.07	.08	.07	-.01	.18	.05	.12
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	2	569	.05	.03	.07	.00	.07	.07	.02	.11
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S244. Meta-analytic results describing cognitive abilities’ relations with extraversion--activity.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD$\hat{\rho}$</i>	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	65	381,809	.18	.04	.23	.04	.17	.28	.22	.24
Fluid	47	42,613	-.04	.05	-.06	.05	-.12	.01	-.07	-.04
Induction	87	388,190	.10	.04	.14	.04	.08	.19	.13	.14
General Sequential Reasoning	15	1,243	.06	.12	.08	.04	.03	.14	.02	.15
Quantitative Reasoning	24	16,902	.08	.07	.10	.08	.00	.20	.07	.13
Memory	2	8,563	.06	.01	.08	.00	.08	.08	.06	.10
Long Term Storage and Retrieval	-	-	-	-	-	-	-	-	-	-
Learning Efficiency	12	1,372	.02	.10	.03	.06	-.04	.10	-.04	.10
Associative Memory	1	138	-.02	-	-.02	-	-	-	-.21	.16
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	4	9,076	.03	.02	.04	.01	.02	.06	.02	.07
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	2	365	.16	.01	.23	.00	.23	.23	.20	.25
Ideational Fluency	6	3,788	.19	.07	.25	.08	.15	.35	.19	.32
Associational Fluency	4	589	.03	.04	.04	.00	.04	.04	.00	.08
Expressional Fluency	4	589	.03	.10	.04	.09	-.07	.15	-.07	.16
Sensitivity to Problems and Alt. Solutions	2	156	.20	.02	.27	.00	.27	.27	.24	.30
Originality and Creativity	9	361,957	.14	.01	.20	.00	.20	.20	.19	.20
Naming Facility and Speed of Lexical Access	1	8,678	.07	-	.10	-	-	-	.07	.13
Word Fluency	12	1,812	.04	.09	.05	.06	-.02	.13	-.01	.11
Short Term Memory	4	361,782	.06	.00	.08	.00	.08	.08	.08	.09
Memory Span	19	379,981	.10	.01	.13	.00	.13	.13	.13	.14
Working Memory Capacity	11	943	.01	.10	.02	.00	.02	.02	-.04	.08
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	6	1,056	.08	.09	.11	.07	.03	.20	.03	.19
Visualization	25	371,955	.08	.01	.11	.01	.10	.12	.10	.11

Closure Speed	6	8,725	.07	.03	.09	.01	.07	.10	.06	.11
Flexibility of Closure	2	156	.14	.11	.19	.00	.19	.19	.02	.35
Spatial Scanning	6	8,633	.06	.03	.08	.01	.07	.09	.06	.11
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	2	300	.15	.05	.20	.00	.20	.20	.13	.27
Perceptual Speed	27	372,882	.12	.02	.15	.02	.13	.17	.14	.16
Scanning	6	370,501	.09	.02	.13	.02	.11	.15	.11	.15
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	3	359,806	.12	.00	.16	.00	.16	.16	.15	.16
Reaction and Decision Speed	1	229	-.08	-	-.11	-	-	-	-.25	.04
Simple Reaction Time	5	8,970	-.04	.03	-.06	.02	-.09	-.03	-.10	-.03
Choice Reaction Time	1	8,272	.02	-	.03	-	-	-	.00	.05
Decision Time	1	8,272	-.06	-	-.08	-	-	-	-.10	-.05
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge	-	-	-	-	-	-	-	-	-	-
Quantitative Ability	2	357,591	.15	.00	.20	.00	.20	.20	.19	.20
Mathematics Knowledge	3	372,011	.15	.01	.19	.00	.19	.19	.19	.20
Mathematics Achievement	1	359,094	.15	-	.21	-	-	-	.21	.21
Verbal Ability	16	354,048	.18	.02	.22	.01	.21	.24	.21	.23
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	5	361,855	.17	.01	.23	.00	.23	.23	.22	.23
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	4	671	.01	.13	.01	.14	-.16	.18	-.13	.15
Native Language Usage	5	363,593	.14	.01	.20	.00	.20	.20	.19	.21
Writing Ability	1	62	.16	-	.21	-	-	-	-.06	.47
Spelling Ability	5	363,674	.13	.01	.18	.00	.18	.18	.18	.19
Comprehension Knowledge	7	362,955	.14	.00	.19	.00	.19	.19	.19	.19

General Verbal Information	6	361,756	.21	.01	.28	.00	.28	.28	.27	.28
Language Development	1	361,002	.18	-	.23	-	-	-	.23	.23
Lexical Knowledge	28	367,388	.18	.02	.24	.01	.22	.26	.23	.25
Listening Ability	1	326	.11	-	.15	-	-	-	.03	.28
Domain Specific Knowledge	1	356,022	.14	-	.23	-	-	-	.23	.24
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	1	361,935	.15	-	.23	-	-	-	.23	.24
Behavioral Content Knowledge	1	201	-.04	-	-.09	-	-	-	-.35	.18
Business Knowledge	1	357,837	.12	-	.20	-	-	-	.19	.20
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	1	62	.25	-	.35	-	-	-	.07	.62
Realistic Knowledge	1	362,744	.16	-	.24	-	-	-	.24	.25
General Science Knowledge	1	630	.10	-	.16	-	-	-	.05	.26
Life Sciences Knowledge	2	364,012	.16	.00	.24	.00	.24	.24	.23	.24
Mechanical Knowledge	2	362,869	.13	.00	.17	.00	.17	.17	.16	.18
Natural Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Physical Sciences Knowledge	1	366,932	.12	-	.17	-	-	-	.16	.17
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	2	361,997	.15	.00	.21	.00	.21	.21	.21	.21
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	1	221	.07	-	.09	-	-	-	-.06	.24
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	1	108	-.06	-	-.08	-	-	-	-.28	.13
Acquired Knowledge & Visual Processing	3	361,229	.12	.01	.16	.00	.16	.16	.15	.17
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	1	138	.04	-	.05	-	-	-	-.13	.24

Fluid & Processing Speed	-	-	-	-	-	-	-	-	-	-
Fluid & Visual Processing	-	-	-	-	-	-	-	-	-	-
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	1	229	.01	-	.01	-	-	-	-.14	.15
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S245. Meta-analytic results describing cognitive abilities’ relations with extraversion--positive emotionality.

Cognitive Ability Construct	Total K	Total N	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD$\hat{\rho}$</i>	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	36	13,273	.03	.10	.04	.11	-.10	.18	.00	.07
Fluid	3	491	-.03	.08	-.04	.04	-.09	.01	-.14	.06
Induction	33	4,275	-.01	.11	-.01	.09	-.13	.11	-.05	.03
General Sequential Reasoning	9	3,073	.01	.06	.01	.04	-.03	.06	-.03	.06
Quantitative Reasoning	10	3,356	.07	.12	.09	.13	-.08	.26	.01	.16
Memory	2	314	.13	.00	.17	.00	.17	.17	.16	.18
Long Term Storage and Retrieval	1	2,347	.02	-	.03	-	-	-	-.02	.07
Learning Efficiency	9	916	.02	.09	.02	.00	.02	.02	-.04	.09
Associative Memory	-	-	-	-	-	-	-	-	-	-
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	2	3,829	.11	.05	.15	.06	.07	.23	.07	.23
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	1	962	.09	-	.13	-	-	-	.06	.20
Ideational Fluency	1	2,603	.19	-	.25	-	-	-	.21	.29
Associational Fluency	1	2,354	.07	-	.09	-	-	-	.04	.13
Expressional Fluency	-	-	-	-	-	-	-	-	-	-
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	-	-	-	-	-	-	-	-	-	-
Naming Facility and Speed of Lexical Access	2	3,361	.04	.03	.07	.04	.02	.11	.01	.13
Word Fluency	7	3,137	.06	.03	.08	.00	.08	.08	.06	.10
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	20	5,805	.10	.08	.12	.06	.04	.20	.08	.16
Working Memory Capacity	13	3,273	.05	.07	.07	.02	.04	.09	.03	.10
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	7	1,213	.13	.11	.16	.10	.03	.29	.07	.25
Visualization	24	6,368	.03	.06	.04	.00	.04	.04	.01	.06

Closure Speed	6	734	.10	.07	.13	.00	.13	.13	.06	.19
Flexibility of Closure	1	114	.06	-	.08	-	-	-	-.12	.27
Spatial Scanning	-	-	-	-	-	-	-	-	-	-
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	-	-	-	-	-	-	-	-	-	-
Perceptual Speed	20	2,273	.07	.09	.08	.00	.08	.08	.04	.12
Scanning	2	420	.05	.19	.07	.23	-.22	.37	-.22	.36
Pattern Recognition	2	420	.05	.03	.07	.00	.07	.07	.03	.11
Number Facility	2	420	.00	.10	.00	.09	-.11	.11	-.14	.14
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	-	-	-	-	-	-	-	-	-	-
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge	-	-	-	-	-	-	-	-	-	-
Quantitative Ability	1	114	.05	-	.06	-	-	-	-.13	.26
Mathematics Knowledge	1	156	.04	-	.05	-	-	-	-.12	.21
Mathematics Achievement	-	-	-	-	-	-	-	-	-	-
Verbal Ability	4	627	-.06	.10	-.07	.08	-.17	.03	-.17	.04
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	3	1,318	-.02	.02	-.02	.00	-.02	-.02	-.05	.00
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	-	-	-	-	-	-	-	-	-	-
Writing Ability	1	62	.04	-	.05	-	-	-	-.21	.31
Spelling Ability	-	-	-	-	-	-	-	-	-	-
Comprehension Knowledge	11	5,631	.06	.08	.08	.08	-.03	.19	.03	.13

General Verbal Information	9	3,839	.05	.05	.07	.03	.03	.11	.03	.10
Language Development	1	114	.09	-	.11	-	-	-	-.08	.31
Lexical Knowledge	28	9,091	.01	.10	.01	.10	-.12	.14	-.03	.05
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	-	-	-	-	-	-	-	-	-	-
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	1	62	.09	-	.13	-	-	-	-.15	.41
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	-	-	-	-	-	-	-	-	-	-
Life Sciences Knowledge	1	62	-.11	-	-.16	-	-	-	-.45	.14
Mechanical Knowledge	-	-	-	-	-	-	-	-	-	-
Natural Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Physical Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	1	62	.00	-	.00	-	-	-	-.30	.29
Psychomotor Ability	2	420	.16	.04	.20	.00	.20	.20	.14	.27
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	2	420	.14	.07	.19	.00	.19	.19	.09	.30
Manual Dexterity	2	420	.13	.02	.17	.00	.17	.17	.14	.20
Psychomotor Speed	2	420	.12	.07	.16	.00	.16	.16	.05	.27
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	1	88	.13	-	.17	-	-	-	-.05	.39
Acquired Knwl., Psychomotor Speed, & Vis. Proc. Fluid & Memory	-	-	-	-	-	-	-	-	-	-

Fluid & Processing Speed	3	1,352	-.02	.06	-.03	.05	-.10	.04	-.11	.05
Fluid & Visual Processing	3	3,181	.04	.01	.06	.00	.06	.06	.04	.07
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S246. Meta-analytic results describing cognitive abilities’ relations with extraversion--sociability.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	138	420,900	.08	.07	.10	.08	.00	.20	.09	.11
Fluid	74	54,127	-.07	.08	-.09	.09	-.21	.02	-.11	-.07
Induction	128	489,485	.02	.07	.02	.08	-.08	.13	.01	.04
General Sequential Reasoning	46	14,005	.01	.09	.01	.08	-.09	.12	-.01	.04
Quantitative Reasoning	44	84,335	-.11	.06	-.13	.07	-.22	-.04	-.15	-.11
Memory	2	836	-.05	.05	-.06	.03	-.10	-.02	-.14	.02
Long Term Storage and Retrieval	-	-	-	-	-	-	-	-	-	-
Learning Efficiency	9	906	.07	.09	.08	.00	.08	.08	.02	.15
Associative Memory	2	412	.02	.05	.02	.00	.02	.02	-.05	.10
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	-	-	-	-	-	-	-	-	-	-
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	2	318	.11	.16	.14	.18	-.09	.37	-.10	.39
Ideational Fluency	1	2,603	.14	-	.18	-	-	-	.13	.22
Associational Fluency	2	156	.09	.12	.11	.06	.03	.19	-.07	.30
Expressional Fluency	2	156	.08	.04	.11	.00	.11	.11	.04	.17
Sensitivity to Problems and Alt. Solutions	2	156	.08	.04	.11	.00	.11	.11	.04	.17
Originality and Creativity	7	361,815	.08	.01	.10	.01	.09	.11	.09	.11
Naming Facility and Speed of Lexical Access	-	-	-	-	-	-	-	-	-	-
Word Fluency	11	1,612	.07	.16	.09	.17	-.13	.32	-.01	.20
Short Term Memory	1	361,327	.06	-	.08	-	-	-	.08	.08
Memory Span	23	364,141	.09	.01	.12	.01	.11	.12	.11	.12
Working Memory Capacity	11	934	-.05	.06	-.06	.00	-.06	-.06	-.09	-.02
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	7	1,732	.01	.06	.01	.00	.01	.01	-.03	.06
Visualization	32	437,140	-.01	.03	-.01	.03	-.06	.03	-.02	.00

Closure Speed	8	1,466	-.06	.09	-.07	.07	-.16	.02	-.14	.00
Flexibility of Closure	12	73,559	-.05	.02	-.07	.01	-.08	-.05	-.08	-.06
Spatial Scanning	2	310	.02	.11	.02	.09	-.10	.14	-.14	.18
Perceptual Illusions	4	980	.01	.03	.01	.00	.01	.01	-.02	.04
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	3	845	.00	.11	.00	.11	-.14	.14	-.13	.12
Perceptual Speed	25	363,041	.15	.02	.18	.01	.17	.20	.18	.19
Scanning	8	432,223	.11	.05	.14	.07	.06	.23	.10	.18
Pattern Recognition	1	142	.01	-	.01	-	-	-	-.17	.18
Number Facility	4	359,855	.14	.01	.17	.00	.17	.17	.16	.18
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	-	-	-	-	-	-	-	-	-	-
Choice Reaction Time	1	53	.13	-	.17	-	-	-	-.13	.46
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge	4	798	.03	.04	.03	.00	.03	.03	-.01	.07
Quantitative Ability	1	357,453	.06	-	.07	-	-	-	.07	.07
Mathematics Knowledge	6	444,112	.01	.09	.01	.10	-.12	.15	-.06	.08
Mathematics Achievement	3	360,850	.06	.01	.08	.00	.08	.08	.07	.09
Verbal Ability	21	355,935	.15	.02	.18	.02	.15	.20	.17	.19
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	5	361,937	.11	.01	.14	.00	.14	.15	.14	.15
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	3	524	-.06	.05	-.07	.00	-.07	-.07	-.13	-.01
Native Language Usage	4	361,720	.14	.01	.18	.00	.18	.18	.17	.19
Writing Ability	1	62	-.03	-	-.04	-	-	-	-.29	.22
Spelling Ability	4	361,801	.15	.01	.20	.00	.20	.20	.19	.21
Comprehension Knowledge	13	364,199	.15	.01	.18	.00	.18	.19	.18	.19

General Verbal Information	12	362,664	.14	.02	.17	.01	.16	.19	.16	.18
Language Development	3	361,434	.18	.01	.22	.01	.21	.23	.21	.23
Lexical Knowledge	37	441,463	.07	.09	.08	.11	-.06	.23	.05	.12
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	2	356,200	.10	.00	.16	.00	.16	.16	.16	.16
Foreign Language Proficiency	1	318	-.01	-	-.01	-	-	-	-.13	.10
Arts and Humanities	1	361,935	.14	-	.21	-	-	-	.20	.21
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	1	357,837	.10	-	.16	-	-	-	.16	.16
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	2	240	.02	.18	.03	.20	-.23	.29	-.24	.31
Realistic Knowledge	2	362,922	.05	.00	.07	.00	.07	.07	.07	.07
General Science Knowledge	5	72,873	-.14	.02	-.22	.01	-.24	-.21	-.25	-.20
Life Sciences Knowledge	2	364,012	.09	.01	.12	.00	.12	.12	.11	.13
Mechanical Knowledge	17	363,988	.02	.01	.03	.01	.02	.04	.02	.04
Natural Sciences Knowledge	1	1,614	.05	-	.07	-	-	-	.01	.12
Physical Sciences Knowledge	6	439,415	-.03	.02	-.04	.03	-.07	.00	-.05	-.02
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	4	363,789	.06	.00	.08	.00	.08	.08	.07	.08
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	1	108	.07	-	.09	-	-	-	-.11	.28
Acquired Knowledge & Visual Processing	4	433,015	-.05	.01	-.06	.02	-.08	-.04	-.07	-.05
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	1	318	-.07	-	-.09	-	-	-	-.20	.03
Fluid & Memory	-	-	-	-	-	-	-	-	-	-

Fluid & Processing Speed	1	142	.01	-	.01	-	-	-	-.17	.18
Fluid & Visual Processing	3	1,699	.00	.08	.00	.08	-.11	.10	-.10	.09
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S247. Meta-analytic results describing cognitive abilities’ relations with extraversion--sensation seeking.

Cognitive Ability Construct	Total K	Total N	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD$\hat{\rho}$</i>	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	79	24,581	.05	.11	.06	.12	-.09	.21	.04	.09
Fluid	23	31,100	.05	.05	.07	.06	-.01	.14	.04	.09
Induction	134	118,493	.01	.06	.01	.07	-.08	.11	.00	.02
General Sequential Reasoning	44	12,270	.01	.09	.02	.09	-.09	.13	-.01	.05
Quantitative Reasoning	22	5,387	-.03	.09	-.04	.07	-.14	.05	-.08	.00
Memory	1	291	-.04	-	-.05	-	-	-	-.18	.08
Long Term Storage and Retrieval	3	457	-.06	.12	-.09	.12	-.24	.06	-.24	.07
Learning Efficiency	10	1,071	.03	.13	.03	.11	-.11	.18	-.06	.12
Associative Memory	3	447	-.02	.06	-.03	.00	-.03	-.03	-.10	.04
Meaningful Memory	1	138	-.10	-	-.13	-	-	-	-.32	.05
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	2	2,138	-.07	.04	-.09	.03	-.13	-.06	-.15	-.03
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	3	399	.26	.05	.36	.00	.36	.36	.30	.43
Ideational Fluency	11	4,363	.09	.08	.13	.09	.02	.24	.07	.18
Associational Fluency	4	844	.02	.13	.02	.14	-.16	.20	-.12	.16
Expressional Fluency	5	1,184	.02	.09	.03	.09	-.09	.15	-.06	.13
Sensitivity to Problems and Alt. Solutions	1	298	.12	-	.17	-	-	-	.04	.29
Originality and Creativity	10	1,642	.03	.14	.05	.15	-.15	.24	-.05	.14
Naming Facility and Speed of Lexical Access	4	532	.14	.09	.20	.00	.20	.20	.10	.31
Word Fluency	12	2,014	.02	.12	.02	.12	-.13	.17	-.05	.10
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	28	3,657	.00	.11	.00	.09	-.11	.11	-.05	.04
Working Memory Capacity	19	2,762	.00	.08	.00	.00	.00	.00	-.04	.04
Attentional Executive Control	1	127	-.23	-	-.28	-	-	-	-.46	-.11
Visual Processing	16	8,690	-.01	.06	-.02	.06	-.09	.06	-.05	.01
Visualization	50	13,480	.04	.12	.06	.13	-.11	.22	.02	.09

Closure Speed	20	3,298	.04	.09	.05	.06	-.03	.13	.01	.09
Flexibility of Closure	9	2,295	.00	.09	.00	.09	-.11	.12	-.06	.07
Spatial Scanning	5	1,205	-.02	.10	-.02	.10	-.15	.10	-.12	.07
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	7	1,717	.04	.07	.05	.02	.03	.08	.00	.11
Auditory Processing	2	478	-.06	.03	-.08	.00	-.08	-.08	-.12	-.04
Processing Speed	1	153	.34	-	.43	-	-	-	.28	.58
Perceptual Speed	44	8,367	.02	.10	.02	.09	-.10	.14	-.01	.05
Scanning	13	3,332	-.02	.07	-.02	.03	-.06	.01	-.06	.02
Pattern Recognition	2	420	.13	.09	.17	.07	.08	.25	.03	.30
Number Facility	13	5,532	.04	.08	.05	.07	-.04	.15	.01	.10
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	7	779	.09	.10	.13	.03	.09	.17	.04	.22
Choice Reaction Time	2	180	.08	.02	.11	.00	.11	.11	.07	.14
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	3	238	.07	.12	.09	.03	.05	.13	-.05	.24
Acquired Knowledge	4	350	.04	.10	.05	.00	.05	.05	-.06	.15
Quantitative Ability	6	782	.03	.18	.04	.20	-.21	.29	-.11	.19
Mathematics Knowledge	2	683	.07	.11	.09	.13	-.07	.25	-.07	.26
Mathematics Achievement	4	2,502	.02	.03	.02	.00	.02	.02	-.01	.06
Verbal Ability	17	2,618	.00	.10	.00	.08	-.10	.10	-.05	.05
Reading and Writing	2	43	.19	.26	.24	.19	.00	.48	-.15	.63
Reading Comprehension	13	2,856	.01	.06	.02	.00	.02	.02	-.02	.05
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	2	415	-.06	.01	-.07	.00	-.07	-.07	-.09	-.05
Native Language Usage	2	667	.01	.04	.01	.00	.01	.01	-.05	.07
Writing Ability	1	62	-.08	-	-.10	-	-	-	-.37	.16
Spelling Ability	2	278	.05	.03	.06	.00	.06	.06	.01	.12
Comprehension Knowledge	24	7,768	.13	.07	.16	.04	.11	.22	.13	.19

General Verbal Information	21	4,993	.12	.08	.15	.05	.08	.22	.11	.19
Language Development	-	-	-	-	-	-	-	-	-	-
Lexical Knowledge	51	13,603	.04	.12	.05	.13	-.11	.22	.02	.09
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	-	-	-	-	-	-	-	-	-	-
Foreign Language Proficiency	1	305	.06	-	.08	-	-	-	-.04	.20
Arts and Humanities	2	1,450	.19	.09	.30	.12	.15	.45	.13	.47
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	3	8,624	-.04	.01	-.05	.00	-.05	-.05	-.07	-.04
Military & Police	1	62	-.11	-	-.15	-	-	-	-.44	.13
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	4	881	-.03	.10	-.05	.11	-.19	.08	-.18	.07
Life Sciences Knowledge	2	253	-.20	.01	-.28	.00	-.28	-.28	-.30	-.26
Mechanical Knowledge	2	867	-.02	.08	-.02	.08	-.13	.09	-.14	.10
Natural Sciences Knowledge	3	480	.04	.18	.05	.23	-.24	.34	-.18	.29
Physical Sciences Knowledge	1	138	.10	-	.13	-	-	-	-.05	.32
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	4	6,933	.03	.02	.04	.00	.04	.04	.01	.07
Social Studies Knowledge	7	1,083	-.02	.15	-.03	.17	-.25	.19	-.15	.10
Psychomotor Ability	3	555	.06	.17	.08	.20	-.18	.33	-.13	.29
Aiming	2	294	-.02	.16	-.02	.18	-.25	.21	-.26	.22
Finger Dexterity	2	420	.10	.11	.14	.12	-.02	.29	-.04	.32
Manual Dexterity	3	558	.08	.13	.10	.14	-.08	.28	-.06	.26
Psychomotor Speed	2	420	.05	.15	.07	.18	-.17	.30	-.17	.30
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	1	185	-.16	-	-.21	-	-	-	-.36	-.06
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	5	8,795	-.04	.01	-.05	.00	-.05	-.05	-.06	-.04

Fluid & Processing Speed	9	2,497	-.01	.09	-.02	.09	-.14	.11	-.08	.05
Fluid & Visual Processing	8	4,004	.15	.06	.19	.05	.13	.26	.15	.24
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	2	569	.14	.01	.18	.00	.18	.18	.17	.19
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S248. Meta-analytic results describing cognitive abilities’ relations with compound: optimism.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	32	17,077	.11	.10	.13	.11	-.01	.27	.10	.17
Fluid	43	44,033	-.05	.10	-.06	.12	-.22	.10	-.09	-.03
Induction	48	31,247	.00	.07	.00	.07	-.10	.09	-.02	.02
General Sequential Reasoning	15	7,622	.03	.05	.04	.03	.00	.07	.01	.06
Quantitative Reasoning	16	20,386	.16	.04	.21	.03	.17	.25	.19	.23
Memory	1	2,037	.04	-	.05	-	-	-	.01	.10
Long Term Storage and Retrieval	2	3,442	.03	.01	.05	.00	.05	.05	.03	.07
Learning Efficiency	-	-	-	-	-	-	-	-	-	-
Associative Memory	-	-	-	-	-	-	-	-	-	-
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	11	35,360	.12	.03	.16	.03	.11	.20	.13	.18
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	1	1,031	.12	-	.16	-	-	-	.09	.23
Ideational Fluency	4	4,524	.10	.07	.13	.08	.03	.23	.05	.20
Associational Fluency	1	2,126	.15	-	.20	-	-	-	.15	.24
Expressional Fluency	-	-	-	-	-	-	-	-	-	-
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	3	422	.03	.16	.04	.18	-.20	.27	-.17	.24
Naming Facility and Speed of Lexical Access	15	35,786	.10	.04	.15	.05	.08	.22	.12	.18
Word Fluency	2	6,468	.10	.04	.14	.05	.08	.20	.08	.20
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	25	45,540	.12	.05	.15	.05	.09	.21	.13	.17
Working Memory Capacity	7	10,828	.11	.02	.13	.00	.13	.13	.12	.15
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	2	293	-.06	.06	-.07	.00	-.07	-.07	-.16	.01
Visualization	9	1,205	.02	.09	.02	.03	-.02	.07	-.04	.09

Closure Speed	6	749	.07	.08	.09	.00	.09	.09	.02	.16
Flexibility of Closure	2	293	-.09	.03	-.12	.00	-.12	-.12	-.17	-.07
Spatial Scanning	-	-	-	-	-	-	-	-	-	-
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	1	303	-.02	-	-.03	-	-	-	-.16	.10
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	-	-	-	-	-	-	-	-	-	-
Perceptual Speed	6	748	.08	.08	.10	.00	.10	.10	.04	.17
Scanning	4	10,676	.00	.02	.00	.00	.00	.00	-.02	.02
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	-	-	-	-	-	-	-	-	-	-
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	-	-	-	-	-	-	-	-	-	-
Choice Reaction Time	5	4,643	.05	.05	.06	.06	-.01	.14	.01	.12
Decision Time	5	4,718	.10	.03	.13	.00	.13	.13	.10	.16
Movement Time	5	4,718	.10	.05	.13	.05	.07	.19	.08	.18
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge	-	-	-	-	-	-	-	-	-	-
Quantitative Ability	1	4,987	.20	-	.25	-	-	-	.22	.28
Mathematics Knowledge	-	-	-	-	-	-	-	-	-	-
Mathematics Achievement	-	-	-	-	-	-	-	-	-	-
Verbal Ability	4	180	-.06	.20	-.07	.16	-.28	.13	-.28	.13
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	5	1,434	.00	.07	.00	.04	-.06	.05	-.07	.06
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	-	-	-	-	-	-	-	-	-	-
Writing Ability	-	-	-	-	-	-	-	-	-	-
Spelling Ability	-	-	-	-	-	-	-	-	-	-
Comprehension Knowledge	8	1,064	.06	.07	.08	.00	.08	.08	.03	.13

General Verbal Information	9	1,371	.03	.11	.03	.10	-.09	.16	-.05	.11
Language Development	-	-	-	-	-	-	-	-	-	-
Lexical Knowledge	11	1,479	.06	.13	.08	.12	-.07	.23	.00	.16
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	-	-	-	-	-	-	-	-	-	-
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	-	-	-	-	-	-	-	-	-	-
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	-	-	-	-	-	-	-	-	-	-
Life Sciences Knowledge	1	1,955	.15	-	.22	-	-	-	.16	.27
Mechanical Knowledge	-	-	-	-	-	-	-	-	-	-
Natural Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Physical Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	-	-	-	-	-	-	-	-	-	-
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	-	-	-	-	-	-	-	-	-	-

Fluid & Processing Speed	-	-	-	-	-	-	-	-	-	-
Fluid & Visual Processing	2	316	.05	.03	.06	.00	.06	.06	.01	.11
Memory & Processing Speed	1	1,966	.08	-	.10	-	-	-	.05	.14
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S249. Meta-analytic results describing cognitive abilities’ relations with compound: ambition.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	78	46,473	.05	.15	.06	.17	-.16	.29	.03	.10
Fluid	57	52,023	-.03	.09	-.04	.11	-.19	.10	-.07	-.02
Induction	65	32,773	-.02	.08	-.03	.08	-.13	.07	-.05	-.01
General Sequential Reasoning	16	5,358	.03	.05	.04	.00	.04	.04	.02	.07
Quantitative Reasoning	16	4,305	.00	.10	.00	.09	-.12	.11	-.05	.05
Memory	1	545	.08	-	.10	-	-	-	.01	.19
Long Term Storage and Retrieval	1	113	.15	-	.20	-	-	-	.00	.41
Learning Efficiency	-	-	-	-	-	-	-	-	-	-
Associative Memory	-	-	-	-	-	-	-	-	-	-
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	-	-	-	-	-	-	-	-	-	-
Long Term Visual Memory	1	269	.08	-	.10	-	-	-	-.03	.23
Retrieval Fluency	1	100	.45	-	.60	-	-	-	.43	.78
Ideational Fluency	-	-	-	-	-	-	-	-	-	-
Associational Fluency	-	-	-	-	-	-	-	-	-	-
Expressional Fluency	1	113	.18	-	.24	-	-	-	.04	.44
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	1	545	.16	-	.21	-	-	-	.12	.30
Naming Facility and Speed of Lexical Access	-	-	-	-	-	-	-	-	-	-
Word Fluency	2	284	.12	.07	.15	.00	.15	.15	.05	.26
Short Term Memory	1	113	.13	-	.16	-	-	-	-.03	.35
Memory Span	2	320	-.06	.10	-.07	.08	-.18	.04	-.22	.08
Working Memory Capacity	1	113	.13	-	.15	-	-	-	-.03	.34
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	4	3,656	-.06	.02	-.07	.00	-.07	-.07	-.09	-.05
Visualization	4	907	.05	.10	.06	.10	-.07	.19	-.04	.17

Closure Speed	1	266	.04	-	.05	-	-	-	-.08	.18
Flexibility of Closure	5	1,548	.01	.12	.01	.13	-.15	.18	-.09	.12
Spatial Scanning	2	310	.09	.10	.12	.08	.01	.22	-.03	.27
Perceptual Illusions	4	980	.00	.06	.01	.00	.01	.01	-.05	.07
Visual Memory	1	269	.12	-	.16	-	-	-	.03	.29
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	2	651	.05	.06	.06	.04	.02	.11	-.03	.15
Perceptual Speed	5	899	.12	.12	.15	.12	.00	.30	.04	.26
Scanning	3	8,779	.50	.07	.66	.05	.59	.73	.58	.74
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	5	8,880	.20	.06	.25	.07	.16	.33	.19	.30
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	-	-	-	-	-	-	-	-	-	-
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge	3	620	.15	.08	.18	.05	.12	.24	.09	.28
Quantitative Ability	1	85	-.04	-	-.05	-	-	-	-.27	.17
Mathematics Knowledge	1	155	.22	-	.27	-	-	-	.12	.42
Mathematics Achievement	7	2,878	.14	.10	.19	.12	.04	.33	.10	.27
Verbal Ability	18	4,506	.11	.15	.13	.17	-.08	.35	.06	.20
Reading and Writing	2	2,703	.24	.04	.30	.03	.26	.34	.24	.36
Reading Comprehension	2	280	.31	.25	.40	.31	.01	.79	.03	.78
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	-	-	-	-	-	-	-	-	-	-
Writing Ability	-	-	-	-	-	-	-	-	-	-
Spelling Ability	-	-	-	-	-	-	-	-	-	-
Comprehension Knowledge	3	589	.25	.26	.31	.31	-.09	.71	.01	.62

General Verbal Information	4	689	.21	.21	.27	.25	-.05	.59	.05	.49
Language Development	-	-	-	-	-	-	-	-	-	-
Lexical Knowledge	18	7,057	.12	.12	.14	.14	-.03	.32	.09	.20
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	-	-	-	-	-	-	-	-	-	-
Foreign Language Proficiency	1	297	.32	-	.40	-	-	-	.29	.50
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	3	4,233	-.02	.03	-.02	.02	-.06	.01	-.06	.02
Military & Police	-	-	-	-	-	-	-	-	-	-
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	1	155	.10	-	.16	-	-	-	-.05	.36
Life Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Mechanical Knowledge	3	421	.14	.09	.18	.06	.11	.25	.06	.29
Natural Sciences Knowledge	5	2,350	.12	.08	.16	.09	.05	.27	.08	.24
Physical Sciences Knowledge	2	359	.06	.07	.08	.00	.08	.08	-.02	.19
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	4	3,269	.03	.03	.05	.00	.05	.05	.01	.08
Social Studies Knowledge	5	2,350	.14	.14	.19	.17	-.03	.41	.05	.33
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	3	3,154	-.07	.03	-.09	.00	-.09	-.09	-.12	-.06

Fluid & Processing Speed	-	-	-	-	-	-	-	-	-	-
Fluid & Visual Processing	1	269	.28	-	.36	-	-	-	.24	.47
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	1	113	.17	-	.21	-	-	-	.02	.40
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S250. Meta-analytic results describing cognitive abilities’ relations with compound: ambitious risk taking.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	-	-	-	-	-	-	-	-	-	-
Fluid	2	572	-.11	.05	-.14	.00	-.14	-.14	-.21	-.08
Induction	1	288	-.08	-	-.11	-	-	-	-.23	.02
General Sequential Reasoning	-	-	-	-	-	-	-	-	-	-
Quantitative Reasoning	-	-	-	-	-	-	-	-	-	-
Memory	-	-	-	-	-	-	-	-	-	-
Long Term Storage and Retrieval	-	-	-	-	-	-	-	-	-	-
Learning Efficiency	-	-	-	-	-	-	-	-	-	-
Associative Memory	-	-	-	-	-	-	-	-	-	-
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	-	-	-	-	-	-	-	-	-	-
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	-	-	-	-	-	-	-	-	-	-
Ideational Fluency	-	-	-	-	-	-	-	-	-	-
Associational Fluency	-	-	-	-	-	-	-	-	-	-
Expressional Fluency	-	-	-	-	-	-	-	-	-	-
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	-	-	-	-	-	-	-	-	-	-
Naming Facility and Speed of Lexical Access	-	-	-	-	-	-	-	-	-	-
Word Fluency	-	-	-	-	-	-	-	-	-	-
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	-	-	-	-	-	-	-	-	-	-
Working Memory Capacity	-	-	-	-	-	-	-	-	-	-
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	-	-	-	-	-	-	-	-	-	-
Visualization	-	-	-	-	-	-	-	-	-	-

Closure Speed	-	-	-	-	-	-	-	-	-	-
Flexibility of Closure	-	-	-	-	-	-	-	-	-	-
Spatial Scanning	-	-	-	-	-	-	-	-	-	-
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	-	-	-	-	-	-	-	-	-	-
Perceptual Speed	-	-	-	-	-	-	-	-	-	-
Scanning	-	-	-	-	-	-	-	-	-	-
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	-	-	-	-	-	-	-	-	-	-
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	-	-	-	-	-	-	-	-	-	-
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge	-	-	-	-	-	-	-	-	-	-
Quantitative Ability	-	-	-	-	-	-	-	-	-	-
Mathematics Knowledge	-	-	-	-	-	-	-	-	-	-
Mathematics Achievement	-	-	-	-	-	-	-	-	-	-
Verbal Ability	-	-	-	-	-	-	-	-	-	-
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	-	-	-	-	-	-	-	-	-	-
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	-	-	-	-	-	-	-	-	-	-
Writing Ability	-	-	-	-	-	-	-	-	-	-
Spelling Ability	-	-	-	-	-	-	-	-	-	-
Comprehension Knowledge	-	-	-	-	-	-	-	-	-	-

General Verbal Information	-	-	-	-	-	-	-	-	-	-
Language Development	-	-	-	-	-	-	-	-	-	-
Lexical Knowledge	1	284	-.17	-	-.21	-	-	-	-.32	-.09
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	-	-	-	-	-	-	-	-	-	-
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	-	-	-	-	-	-	-	-	-	-
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	-	-	-	-	-	-	-	-	-	-
Life Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Mechanical Knowledge	-	-	-	-	-	-	-	-	-	-
Natural Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Physical Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	-	-	-	-	-	-	-	-	-	-
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	-	-	-	-	-	-	-	-	-	-

Fluid & Processing Speed	-	-	-	-	-	-	-	-	-	-
Fluid & Visual Processing	-	-	-	-	-	-	-	-	-	-
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S251. Meta-analytic results describing cognitive abilities’ relations with compound: risk taking.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	11	3,975	.02	.06	.03	.03	-.01	.07	-.01	.06
Fluid	39	41,096	.05	.04	.07	.04	.02	.12	.05	.08
Induction	33	20,236	.03	.04	.04	.01	.03	.06	.03	.06
General Sequential Reasoning	6	348	.11	.18	.14	.15	-.05	.33	-.01	.30
Quantitative Reasoning	8	281	-.02	.24	-.03	.22	-.31	.25	-.21	.15
Memory	-	-	-	-	-	-	-	-	-	-
Long Term Storage and Retrieval	-	-	-	-	-	-	-	-	-	-
Learning Efficiency	-	-	-	-	-	-	-	-	-	-
Associative Memory	-	-	-	-	-	-	-	-	-	-
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	-	-	-	-	-	-	-	-	-	-
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	-	-	-	-	-	-	-	-	-	-
Ideational Fluency	2	433	.02	.01	.03	.00	.03	.03	.02	.04
Associational Fluency	2	433	.09	.06	.12	.00	.12	.12	.03	.20
Expressional Fluency	2	433	.04	.02	.06	.00	.06	.06	.02	.09
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	2	433	.05	.02	.07	.00	.07	.07	.04	.09
Naming Facility and Speed of Lexical Access	-	-	-	-	-	-	-	-	-	-
Word Fluency	2	433	.01	.06	.01	.00	.01	.01	-.08	.11
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	-	-	-	-	-	-	-	-	-	-
Working Memory Capacity	-	-	-	-	-	-	-	-	-	-
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	-	-	-	-	-	-	-	-	-	-
Visualization	-	-	-	-	-	-	-	-	-	-

Closure Speed	-	-	-	-	-	-	-	-	-	-
Flexibility of Closure	-	-	-	-	-	-	-	-	-	-
Spatial Scanning	-	-	-	-	-	-	-	-	-	-
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	-	-	-	-	-	-	-	-	-	-
Perceptual Speed	-	-	-	-	-	-	-	-	-	-
Scanning	-	-	-	-	-	-	-	-	-	-
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	-	-	-	-	-	-	-	-	-	-
Reaction and Decision Speed	1	229	.02	-	.03	-	-	-	-.12	.17
Simple Reaction Time	1	243	.14	-	.20	-	-	-	.05	.34
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge	-	-	-	-	-	-	-	-	-	-
Quantitative Ability	-	-	-	-	-	-	-	-	-	-
Mathematics Knowledge	-	-	-	-	-	-	-	-	-	-
Mathematics Achievement	-	-	-	-	-	-	-	-	-	-
Verbal Ability	5	259	-.01	.08	-.01	.00	-.01	-.01	-.08	.06
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	-	-	-	-	-	-	-	-	-	-
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	-	-	-	-	-	-	-	-	-	-
Writing Ability	-	-	-	-	-	-	-	-	-	-
Spelling Ability	-	-	-	-	-	-	-	-	-	-
Comprehension Knowledge	-	-	-	-	-	-	-	-	-	-

General Verbal Information	-	-	-	-	-	-	-	-	-	-
Language Development	-	-	-	-	-	-	-	-	-	-
Lexical Knowledge	1	221	-.03	-	-.04	-	-	-	-.18	.10
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	-	-	-	-	-	-	-	-	-	-
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	-	-	-	-	-	-	-	-	-	-
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	-	-	-	-	-	-	-	-	-	-
Life Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Mechanical Knowledge	-	-	-	-	-	-	-	-	-	-
Natural Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Physical Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	-	-	-	-	-	-	-	-	-	-
Psychomotor Ability	1	135	.01	-	.01	-	-	-	-.17	.20
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	1	221	-.04	-	-.05	-	-	-	-.20	.10
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	-	-	-	-	-	-	-	-	-	-

Fluid & Processing Speed	-	-	-	-	-	-	-	-	-	-
Fluid & Visual Processing	3	947	.08	.05	.10	.00	.10	.10	.05	.16
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	1	229	.16	-	.21	-	-	-	.07	.34
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S252. Meta-analytic results describing cognitive abilities’ relations with compound: managerial potential.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	17	7,831	.22	.11	.27	.12	.11	.43	.21	.32
Fluid	2	214	.01	.16	.02	.17	-.20	.23	-.23	.26
Induction	18	4,765	.05	.08	.07	.07	-.02	.16	.03	.11
General Sequential Reasoning	3	307	-.06	.12	-.07	.08	-.17	.02	-.21	.07
Quantitative Reasoning	1	185	.10	-	.13	-	-	-	-.02	.28
Memory	-	-	-	-	-	-	-	-	-	-
Long Term Storage and Retrieval	-	-	-	-	-	-	-	-	-	-
Learning Efficiency	-	-	-	-	-	-	-	-	-	-
Associative Memory	-	-	-	-	-	-	-	-	-	-
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	-	-	-	-	-	-	-	-	-	-
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	-	-	-	-	-	-	-	-	-	-
Ideational Fluency	1	112	.11	-	.14	-	-	-	-.06	.35
Associational Fluency	-	-	-	-	-	-	-	-	-	-
Expressional Fluency	-	-	-	-	-	-	-	-	-	-
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	1	112	.15	-	.20	-	-	-	.00	.40
Naming Facility and Speed of Lexical Access	-	-	-	-	-	-	-	-	-	-
Word Fluency	-	-	-	-	-	-	-	-	-	-
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	1	93	.13	-	.16	-	-	-	-.05	.37
Working Memory Capacity	-	-	-	-	-	-	-	-	-	-
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	1	93	-.24	-	-.31	-	-	-	-.51	-.10
Visualization	1	93	.26	-	.33	-	-	-	.13	.53

Closure Speed	1	93	.20	-	.26	-	-	-	.05	.47
Flexibility of Closure	2	797	.12	.01	.15	.00	.15	.15	.14	.16
Spatial Scanning	-	-	-	-	-	-	-	-	-	-
Perceptual Illusions	2	459	.06	.08	.08	.07	-.01	.16	-.04	.20
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	-	-	-	-	-	-	-	-	-	-
Perceptual Speed	1	93	.01	-	.01	-	-	-	-.20	.22
Scanning	-	-	-	-	-	-	-	-	-	-
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	-	-	-	-	-	-	-	-	-	-
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	-	-	-	-	-	-	-	-	-	-
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	1	68	.23	-	.29	-	-	-	.05	.53
Mental Comparison Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge	-	-	-	-	-	-	-	-	-	-
Quantitative Ability	1	784	.14	-	.17	-	-	-	.10	.24
Mathematics Knowledge	-	-	-	-	-	-	-	-	-	-
Mathematics Achievement	-	-	-	-	-	-	-	-	-	-
Verbal Ability	3	982	.16	.06	.19	.00	.19	.19	.13	.26
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	-	-	-	-	-	-	-	-	-	-
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	-	-	-	-	-	-	-	-	-	-
Writing Ability	-	-	-	-	-	-	-	-	-	-
Spelling Ability	-	-	-	-	-	-	-	-	-	-
Comprehension Knowledge	1	93	.12	-	.15	-	-	-	-.06	.36

General Verbal Information	1	93	.12	-	.15	-	-	-	-.06	.36
Language Development	-	-	-	-	-	-	-	-	-	-
Lexical Knowledge	3	1,280	.08	.01	.10	.00	.10	.10	.08	.11
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	-	-	-	-	-	-	-	-	-	-
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	-	-	-	-	-	-	-	-	-	-
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	-	-	-	-	-	-	-	-	-	-
Life Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Mechanical Knowledge	-	-	-	-	-	-	-	-	-	-
Natural Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Physical Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	-	-	-	-	-	-	-	-	-	-
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	-	-	-	-	-	-	-	-	-	-

Fluid & Processing Speed	-	-	-	-	-	-	-	-	-	-
Fluid & Visual Processing	-	-	-	-	-	-	-	-	-	-
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S253. Meta-analytic results describing cognitive abilities’ relations with compound: grandiosity and intimidation.

Cognitive Ability Construct	Total K	Total N	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD$\hat{\rho}$</i>	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	8	4,245	-.08	.10	-.11	.12	-.26	.05	-.19	-.03
Fluid	1	60	-.24	-	-.35	-	-	-	-.66	-.05
Induction	12	73,093	-.01	.02	-.01	.02	-.04	.02	-.03	.00
General Sequential Reasoning	3	643	-.07	.11	-.10	.13	-.27	.07	-.26	.06
Quantitative Reasoning	4	72,199	.03	.01	.05	.01	.03	.07	.03	.06
Memory	-	-	-	-	-	-	-	-	-	-
Long Term Storage and Retrieval	-	-	-	-	-	-	-	-	-	-
Learning Efficiency	-	-	-	-	-	-	-	-	-	-
Associative Memory	-	-	-	-	-	-	-	-	-	-
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	1	97	.00	-	.00	-	-	-	-.25	.25
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	-	-	-	-	-	-	-	-	-	-
Ideational Fluency	-	-	-	-	-	-	-	-	-	-
Associational Fluency	-	-	-	-	-	-	-	-	-	-
Expressional Fluency	-	-	-	-	-	-	-	-	-	-
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	-	-	-	-	-	-	-	-	-	-
Naming Facility and Speed of Lexical Access	-	-	-	-	-	-	-	-	-	-
Word Fluency	-	-	-	-	-	-	-	-	-	-
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	1	390	-.08	-	-.11	-	-	-	-.23	.01
Working Memory Capacity	-	-	-	-	-	-	-	-	-	-
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	4	173	.06	.13	.09	.00	.09	.09	-.07	.24
Visualization	5	72,587	.03	.01	.05	.00	.05	.05	.04	.06

Closure Speed	3	643	-.06	.09	-.09	.09	-.21	.02	-.22	.04
Flexibility of Closure	2	71,946	.02	.01	.03	.01	.01	.05	.01	.05
Spatial Scanning	-	-	-	-	-	-	-	-	-	-
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	-	-	-	-	-	-	-	-	-	-
Perceptual Speed	4	741	-.09	.10	-.14	.09	-.25	-.02	-.25	-.02
Scanning	2	71,946	-.02	.00	-.02	.00	-.02	-.02	-.03	-.02
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	-	-	-	-	-	-	-	-	-	-
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	-	-	-	-	-	-	-	-	-	-
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge	2	253	-.07	.08	-.11	.00	-.11	-.11	-.23	.02
Quantitative Ability	-	-	-	-	-	-	-	-	-	-
Mathematics Knowledge	2	71,946	.04	.00	.06	.00	.06	.06	.06	.06
Mathematics Achievement	-	-	-	-	-	-	-	-	-	-
Verbal Ability	-	-	-	-	-	-	-	-	-	-
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	-	-	-	-	-	-	-	-	-	-
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	-	-	-	-	-	-	-	-	-	-
Writing Ability	-	-	-	-	-	-	-	-	-	-
Spelling Ability	-	-	-	-	-	-	-	-	-	-
Comprehension Knowledge	1	390	-.07	-	-.10	-	-	-	-.22	.02

General Verbal Information	3	643	-.10	.06	-.14	.00	-.14	-.14	-.22	-.05
Language Development	-	-	-	-	-	-	-	-	-	-
Lexical Knowledge	4	72,199	-.01	.01	-.01	.00	-.01	-.01	-.02	-.01
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	-	-	-	-	-	-	-	-	-	-
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	3	182	.13	.03	.19	.00	.19	.19	.15	.24
Military & Police	-	-	-	-	-	-	-	-	-	-
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	2	71,946	.06	.01	.10	.00	.10	.10	.08	.13
Life Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Mechanical Knowledge	-	-	-	-	-	-	-	-	-	-
Natural Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Physical Sciences Knowledge	2	71,946	.04	.00	.07	.00	.07	.07	.06	.07
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	3	167	.00	.24	.00	.32	-.40	.41	-.36	.37
Social Studies Knowledge	-	-	-	-	-	-	-	-	-	-
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	2	71,946	.06	.01	.09	.01	.08	.10	.07	.10
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	3	178	.08	.17	.12	.17	-.10	.34	-.12	.36

Fluid & Processing Speed	-	-	-	-	-	-	-	-	-	-
Fluid & Visual Processing	-	-	-	-	-	-	-	-	-	-
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S254. Meta-analytic results describing cognitive abilities’ relations with compound: narcissism.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	15	8,609	.03	.07	.03	.07	-.05	.12	.00	.07
Fluid	3	678	.08	.06	.11	.00	.11	.11	.03	.18
Induction	10	4,095	-.02	.07	-.02	.07	-.11	.06	-.07	.02
General Sequential Reasoning	2	830	.12	.05	.15	.02	.13	.17	.07	.22
Quantitative Reasoning	-	-	-	-	-	-	-	-	-	-
Memory	-	-	-	-	-	-	-	-	-	-
Long Term Storage and Retrieval	-	-	-	-	-	-	-	-	-	-
Learning Efficiency	-	-	-	-	-	-	-	-	-	-
Associative Memory	-	-	-	-	-	-	-	-	-	-
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	-	-	-	-	-	-	-	-	-	-
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	1	320	.12	-	.16	-	-	-	.04	.27
Ideational Fluency	2	564	.03	.06	.04	.00	.04	.04	-.04	.13
Associational Fluency	1	320	.03	-	.04	-	-	-	-.08	.16
Expressional Fluency	-	-	-	-	-	-	-	-	-	-
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	2	564	.05	.02	.06	.00	.06	.06	.03	.09
Naming Facility and Speed of Lexical Access	-	-	-	-	-	-	-	-	-	-
Word Fluency	-	-	-	-	-	-	-	-	-	-
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	-	-	-	-	-	-	-	-	-	-
Working Memory Capacity	-	-	-	-	-	-	-	-	-	-
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	1	320	.02	-	.02	-	-	-	-.09	.14
Visualization	-	-	-	-	-	-	-	-	-	-

Closure Speed	-	-	-	-	-	-	-	-	-	-
Flexibility of Closure	3	1,117	-.04	.05	-.05	.00	-.05	-.05	-.10	.01
Spatial Scanning	-	-	-	-	-	-	-	-	-	-
Perceptual Illusions	2	459	.06	.01	.07	.00	.07	.07	.05	.09
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	-	-	-	-	-	-	-	-	-	-
Perceptual Speed	-	-	-	-	-	-	-	-	-	-
Scanning	-	-	-	-	-	-	-	-	-	-
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	-	-	-	-	-	-	-	-	-	-
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	-	-	-	-	-	-	-	-	-	-
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge	-	-	-	-	-	-	-	-	-	-
Quantitative Ability	-	-	-	-	-	-	-	-	-	-
Mathematics Knowledge	-	-	-	-	-	-	-	-	-	-
Mathematics Achievement	-	-	-	-	-	-	-	-	-	-
Verbal Ability	3	508	.09	.10	.10	.07	.02	.19	.00	.21
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	-	-	-	-	-	-	-	-	-	-
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	-	-	-	-	-	-	-	-	-	-
Writing Ability	-	-	-	-	-	-	-	-	-	-
Spelling Ability	-	-	-	-	-	-	-	-	-	-
Comprehension Knowledge	-	-	-	-	-	-	-	-	-	-

General Verbal Information	-	-	-	-	-	-	-	-	-	-
Language Development	-	-	-	-	-	-	-	-	-	-
Lexical Knowledge	6	6,011	-.04	.03	-.05	.02	-.07	-.02	-.07	-.02
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	-	-	-	-	-	-	-	-	-	-
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	-	-	-	-	-	-	-	-	-	-
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	-	-	-	-	-	-	-	-	-	-
Life Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Mechanical Knowledge	-	-	-	-	-	-	-	-	-	-
Natural Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Physical Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	-	-	-	-	-	-	-	-	-	-
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	-	-	-	-	-	-	-	-	-	-

Fluid & Processing Speed	-	-	-	-	-	-	-	-	-	-
Fluid & Visual Processing	-	-	-	-	-	-	-	-	-	-
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	1	138	-.02	-	-.02	-	-	-	-.20	.15

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S255. Meta-analytic results describing cognitive abilities’ relations with compound: restrained expression.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	22	5,147	.03	.19	.04	.22	-.24	.31	-.05	.12
Fluid	3	647	-.01	.03	-.02	.00	-.02	-.02	-.05	.02
Induction	11	1,789	.02	.09	.02	.06	-.05	.10	-.04	.08
General Sequential Reasoning	3	256	.00	.07	.00	.00	.00	.00	-.09	.08
Quantitative Reasoning	4	1,242	.09	.10	.12	.10	-.01	.25	.01	.22
Memory	-	-	-	-	-	-	-	-	-	-
Long Term Storage and Retrieval	-	-	-	-	-	-	-	-	-	-
Learning Efficiency	-	-	-	-	-	-	-	-	-	-
Associative Memory	4	349	-.01	.11	-.01	.00	-.01	-.01	-.12	.10
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	-	-	-	-	-	-	-	-	-	-
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	-	-	-	-	-	-	-	-	-	-
Ideational Fluency	2	386	.03	.16	.04	.19	-.21	.28	-.21	.29
Associational Fluency	3	372	.11	.15	.14	.16	-.07	.35	-.05	.33
Expressional Fluency	3	372	.00	.12	.00	.11	-.14	.14	-.15	.15
Sensitivity to Problems and Alt. Solutions	2	156	-.02	.03	-.03	.00	-.03	-.03	-.07	.02
Originality and Creativity	4	594	-.02	.10	-.02	.08	-.13	.09	-.14	.09
Naming Facility and Speed of Lexical Access	-	-	-	-	-	-	-	-	-	-
Word Fluency	7	605	-.10	.12	-.14	.08	-.25	-.03	-.24	-.03
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	-	-	-	-	-	-	-	-	-	-
Working Memory Capacity	-	-	-	-	-	-	-	-	-	-
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	-	-	-	-	-	-	-	-	-	-
Visualization	4	279	-.03	.05	-.03	.00	-.03	-.03	-.09	.02

Closure Speed	-	-	-	-	-	-	-	-	-	-
Flexibility of Closure	2	156	.05	.19	.06	.20	-.19	.32	-.23	.35
Spatial Scanning	2	310	.02	.09	.03	.06	-.05	.11	-.11	.17
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	2	197	-.02	.11	-.03	.06	-.11	.06	-.19	.14
Perceptual Speed	4	530	-.05	.16	-.06	.17	-.28	.16	-.23	.11
Scanning	5	577	.05	.13	.06	.12	-.09	.21	-.06	.19
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	6	546	-.09	.14	-.11	.11	-.25	.03	-.23	.00
Reaction and Decision Speed	1	50	.02	-	.02	-	-	-	-.29	.33
Simple Reaction Time	-	-	-	-	-	-	-	-	-	-
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	1	50	.03	-	.04	-	-	-	-.27	.35
Acquired Knowledge	-	-	-	-	-	-	-	-	-	-
Quantitative Ability	-	-	-	-	-	-	-	-	-	-
Mathematics Knowledge	-	-	-	-	-	-	-	-	-	-
Mathematics Achievement	-	-	-	-	-	-	-	-	-	-
Verbal Ability	8	2,350	.16	.07	.20	.06	.13	.28	.15	.26
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	3	563	.01	.09	.01	.07	-.08	.09	-.10	.12
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	4	671	.03	.11	.04	.09	-.08	.16	-.07	.15
Native Language Usage	2	416	.03	.10	.04	.10	-.08	.16	-.12	.19
Writing Ability	-	-	-	-	-	-	-	-	-	-
Spelling Ability	2	416	.02	.01	.02	.00	.02	.02	.01	.03
Comprehension Knowledge	-	-	-	-	-	-	-	-	-	-

General Verbal Information	-	-	-	-	-	-	-	-	-	-
Language Development	-	-	-	-	-	-	-	-	-	-
Lexical Knowledge	9	1,120	.00	.12	.00	.11	-.13	.14	-.08	.09
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	-	-	-	-	-	-	-	-	-	-
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	-	-	-	-	-	-	-	-	-	-
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	2	1,034	.19	.00	.30	.00	.30	.30	.30	.30
Life Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Mechanical Knowledge	1	263	-.06	-	-.08	-	-	-	-.21	.05
Natural Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Physical Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	-	-	-	-	-	-	-	-	-	-
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	1	108	-.08	-	-.10	-	-	-	-.30	.10
Acquired Knowledge & Visual Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	-	-	-	-	-	-	-	-	-	-

Fluid & Processing Speed	-	-	-	-	-	-	-	-	-	-
Fluid & Visual Processing	-	-	-	-	-	-	-	-	-	-
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S256. Meta-analytic results describing cognitive abilities’ relations with openness.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	368	280,446	.21	.11	.26	.12	.11	.42	.25	.27
Fluid	116	102,353	.07	.06	.09	.07	.00	.17	.07	.10
Induction	297	374,131	.16	.10	.20	.13	.04	.37	.19	.22
General Sequential Reasoning	60	57,485	.24	.12	.31	.14	.12	.49	.27	.34
Quantitative Reasoning	71	155,902	.13	.13	.16	.16	-.04	.36	.13	.19
Memory	5	878	.08	.15	.10	.17	-.12	.33	-.04	.25
Long Term Storage and Retrieval	7	7,220	.03	.08	.04	.10	-.09	.16	-.03	.10
Learning Efficiency	12	3,491	.00	.08	.00	.07	-.10	.09	-.05	.05
Associative Memory	12	4,628	.17	.12	.22	.14	.03	.40	.14	.29
Meaningful Memory	6	3,978	.18	.04	.23	.00	.23	.23	.20	.27
Episodic Memory	6	3,641	.08	.03	.11	.00	.11	.11	.08	.13
Free Recall Memory	20	27,915	.15	.09	.20	.11	.06	.34	.16	.24
Long Term Visual Memory	6	1,746	.02	.03	.02	.00	.02	.02	.00	.05
Retrieval Fluency	13	2,438	.18	.16	.25	.19	.00	.49	.15	.35
Ideational Fluency	26	11,141	.15	.10	.20	.11	.06	.34	.16	.24
Associational Fluency	9	3,685	.19	.10	.24	.11	.10	.38	.17	.31
Expressional Fluency	3	837	.16	.11	.22	.12	.07	.37	.08	.35
Sensitivity to Problems and Alt. Solutions	1	298	.14	-	.19	-	-	-	.06	.31
Originality and Creativity	19	3,306	.16	.09	.22	.06	.14	.29	.17	.26
Naming Facility and Speed of Lexical Access	19	20,963	.14	.11	.21	.15	.01	.40	.14	.27
Word Fluency	22	22,317	.15	.05	.20	.05	.13	.27	.17	.22
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	61	37,229	.15	.08	.19	.09	.08	.30	.17	.21
Working Memory Capacity	36	15,245	.09	.07	.12	.06	.04	.19	.09	.14
Attentional Executive Control	7	6,980	.08	.05	.10	.05	.03	.17	.06	.14
Visual Processing	25	12,315	.05	.07	.07	.07	-.03	.16	.04	.10
Visualization	75	102,709	.09	.05	.12	.05	.06	.18	.11	.13

Closure Speed	19	3,712	.11	.08	.14	.06	.06	.21	.10	.18
Flexibility of Closure	24	78,232	.11	.02	.14	.00	.14	.14	.13	.14
Spatial Scanning	10	2,674	.05	.06	.07	.02	.04	.10	.03	.11
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	16	5,446	.07	.08	.09	.09	-.02	.20	.04	.13
Auditory Processing	1	340	.17	-	.23	-	-	-	.11	.34
Processing Speed	3	618	.23	.09	.28	.08	.18	.39	.17	.39
Perceptual Speed	64	19,092	.08	.11	.10	.12	-.05	.25	.07	.13
Scanning	25	89,267	.01	.02	.01	.02	-.02	.04	.00	.02
Pattern Recognition	3	2,491	.15	.06	.19	.07	.10	.28	.11	.27
Number Facility	15	5,187	.02	.06	.03	.03	-.01	.07	.00	.06
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	4	1,185	.03	.09	.04	.09	-.07	.16	-.06	.14
Choice Reaction Time	1	947	.06	-	.08	-	-	-	.01	.15
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	3	1,061	.00	.05	.00	.00	.00	.00	-.06	.06
Mental Comparison Speed	4	534	-.08	.10	-.11	.06	-.19	-.02	-.21	.00
Acquired Knowledge	8	2,652	.19	.08	.23	.08	.13	.33	.17	.29
Quantitative Ability	7	1,169	.09	.12	.11	.12	-.05	.26	.01	.20
Mathematics Knowledge	8	76,510	.07	.01	.09	.01	.08	.10	.08	.10
Mathematics Achievement	6	3,184	.00	.07	.01	.07	-.08	.09	-.06	.07
Verbal Ability	54	38,941	.24	.14	.30	.16	.09	.51	.26	.34
Reading and Writing	1	561	.22	-	.28	-	-	-	.19	.36
Reading Comprehension	20	4,308	.17	.15	.22	.18	-.01	.46	.15	.30
Reading Decoding	3	1,290	.33	.05	.39	.00	.39	.39	.34	.45
Reading Speed	4	693	.02	.25	.02	.31	-.37	.42	-.24	.29
Native Language Usage	2	122	.29	.11	.39	.00	.39	.39	.22	.56
Writing Ability	1	62	-.07	-	-.09	-	-	-	-.35	.17
Spelling Ability	3	368	.31	.11	.42	.08	.32	.52	.28	.56
Comprehension Knowledge	22	4,616	.25	.11	.31	.10	.18	.44	.26	.36

General Verbal Information	39	7,420	.22	.11	.28	.11	.13	.42	.24	.31
Language Development	1	789	.05	-	.06	-	-	-	-.01	.14
Lexical Knowledge	112	98,667	.20	.06	.26	.06	.18	.34	.25	.27
Listening Ability	2	1,200	.19	.13	.26	.17	.05	.48	.05	.47
Domain Specific Knowledge	5	902	.24	.15	.38	.17	.16	.60	.20	.57
Foreign Language Proficiency	3	1,455	.22	.24	.27	.30	-.11	.66	-.02	.56
Arts and Humanities	2	1,340	.10	.00	.15	.00	.15	.15	.15	.15
Behavioral Content Knowledge	6	1,778	.17	.09	.38	.00	.38	.38	.26	.51
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	4	11,377	.06	.07	.08	.09	-.04	.20	.00	.16
Military & Police	3	406	.09	.05	.12	.00	.12	.12	.05	.18
Realistic Knowledge	1	178	.11	-	.17	-	-	-	-.01	.35
General Science Knowledge	5	73,395	.16	.02	.24	.00	.24	.24	.22	.27
Life Sciences Knowledge	5	755	.04	.10	.06	.08	-.05	.16	-.05	.16
Mechanical Knowledge	3	462	.18	.13	.23	.14	.05	.40	.07	.39
Natural Sciences Knowledge	2	521	.23	.15	.31	.19	.07	.55	.07	.56
Physical Sciences Knowledge	5	72,491	.04	.03	.06	.03	.02	.10	.03	.08
compound (Nat. Sci. Knowl. & Phy. Sci. Knowl.)	4	6,535	.01	.01	.02	.00	.02	.02	.01	.03
Social Studies Knowledge	6	1,870	.15	.12	.21	.14	.04	.39	.10	.32
Psychomotor Ability	1	135	-.06	-	-.08	-	-	-	-.26	.11
Aiming	2	264	.06	.03	.07	.00	.07	.07	.02	.12
Finger Dexterity	1	173	.12	-	.16	-	-	-	.00	.33
Manual Dexterity	1	145	-.13	-	-.17	-	-	-	-.34	.01
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	3	257	-.09	.11	-.13	.04	-.18	-.07	-.27	.02
Compounds										
Acquired Knowledge & Auditory Processing	2	322	.14	.13	.18	.14	-.01	.36	-.03	.38
Acquired Knowledge & Memory	4	1,258	.25	.11	.31	.12	.16	.46	.19	.42
Acquired Knowledge & Processing Speed	1	166	.05	-	.06	-	-	-	-.10	.22
Acquired Knowledge & Visual Processing	5	75,664	.06	.01	.08	.01	.06	.10	.07	.09
Acquired Knowl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	8	11,524	.06	.06	.08	.07	-.01	.17	.04	.13

Fluid & Processing Speed	7	4,232	.05	.09	.07	.11	-.07	.20	-.01	.14
Fluid & Visual Processing	19	5,550	.09	.09	.11	.08	.00	.22	.07	.15
Memory & Processing Speed	1	106	-.14	-	-.17	-	-	-	-.37	.02
Memory & Visual Processing	6	2,110	.14	.09	.19	.09	.07	.30	.11	.26
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S257. Meta-analytic results describing cognitive abilities’ relations with openness-experiencing.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	69	375,122	.17	.04	.22	.05	.16	.28	.21	.23
Fluid	20	30,392	-.06	.04	-.08	.04	-.13	-.02	-.10	-.05
Induction	107	474,652	.08	.05	.11	.06	.03	.19	.10	.12
General Sequential Reasoning	19	3,241	.00	.11	.00	.11	-.14	.14	-.06	.06
Quantitative Reasoning	11	3,402	-.06	.08	-.07	.07	-.16	.02	-.12	-.02
Memory	-	-	-	-	-	-	-	-	-	-
Long Term Storage and Retrieval	4	2,774	-.03	.03	-.04	.00	-.04	-.04	-.07	.00
Learning Efficiency	2	306	.20	.13	.27	.13	.10	.45	.07	.48
Associative Memory	5	679	.07	.10	.09	.08	-.01	.19	-.01	.20
Meaningful Memory	1	138	.01	-	.01	-	-	-	-.18	.21
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	2	4,366	-.04	.15	-.06	.20	-.31	.20	-.29	.18
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	2	220	.14	.04	.20	.00	.20	.20	.13	.26
Ideational Fluency	15	2,873	.05	.05	.07	.00	.07	.07	.04	.10
Associational Fluency	6	3,372	.09	.04	.12	.00	.12	.12	.08	.16
Expressional Fluency	6	1,390	.06	.07	.09	.04	.03	.14	.02	.16
Sensitivity to Problems and Alt. Solutions	1	298	.11	-	.15	-	-	-	.02	.28
Originality and Creativity	15	363,025	.12	.01	.17	.00	.17	.17	.16	.17
Naming Facility and Speed of Lexical Access	4	2,674	.02	.04	.04	.03	.00	.07	-.02	.09
Word Fluency	7	3,510	.07	.05	.10	.02	.08	.12	.06	.14
Short Term Memory	1	361,327	.10	-	.13	-	-	-	.13	.13
Memory Span	12	365,232	.17	.01	.22	.00	.22	.22	.21	.23
Working Memory Capacity	5	545	.12	.06	.15	.00	.15	.15	.10	.21
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	4	6,935	-.03	.03	-.05	.01	-.06	-.03	-.08	-.02
Visualization	28	368,387	.02	.02	.02	.03	-.01	.06	.01	.03

Closure Speed	16	3,358	.02	.09	.03	.07	-.06	.12	-.02	.08
Flexibility of Closure	9	2,295	-.01	.04	-.01	.00	-.01	-.01	-.04	.02
Spatial Scanning	5	1,205	-.16	.10	-.21	.09	-.33	-.09	-.30	-.11
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	4	1,267	-.02	.07	-.03	.05	-.10	.03	-.11	.04
Auditory Processing	2	478	.03	.12	.04	.14	-.14	.22	-.15	.23
Processing Speed	1	153	.22	-	.29	-	-	-	.12	.45
Perceptual Speed	24	366,026	.15	.02	.19	.01	.17	.20	.18	.20
Scanning	11	362,578	.11	.01	.15	.00	.15	.15	.14	.16
Pattern Recognition	1	142	.05	-	.07	-	-	-	-.12	.25
Number Facility	9	363,819	.13	.02	.17	.02	.14	.20	.15	.18
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	3	238	-.08	.03	-.12	.00	-.12	-.12	-.16	-.08
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	3	238	-.14	.02	-.19	.00	-.19	-.19	-.22	-.17
Acquired Knowledge	3	551	.15	.11	.19	.11	.05	.33	.05	.33
Quantitative Ability	4	358,041	.13	.01	.17	.00	.17	.17	.16	.19
Mathematics Knowledge	2	370,392	.13	.01	.17	.01	.16	.17	.15	.19
Mathematics Achievement	5	361,641	.13	.03	.18	.03	.14	.22	.15	.21
Verbal Ability	16	353,598	.24	.01	.31	.00	.31	.31	.30	.31
Reading and Writing	2	43	.13	.45	.18	.52	-.49	.84	-.51	.87
Reading Comprehension	11	362,359	.19	.01	.27	.00	.27	.27	.26	.27
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	2	415	.16	.01	.22	.00	.22	.22	.20	.24
Native Language Usage	4	362,079	.22	.01	.31	.00	.31	.31	.30	.31
Writing Ability	-	-	-	-	-	-	-	-	-	-
Spelling Ability	3	361,616	.23	.00	.32	.00	.32	.32	.32	.33
Comprehension Knowledge	14	363,774	.21	.01	.28	.00	.28	.28	.27	.29

General Verbal Information	15	363,692	.19	.01	.25	.00	.25	.25	.24	.26
Language Development	1	361,002	.20	-	.27	-	-	-	.26	.27
Lexical Knowledge	25	368,126	.19	.02	.25	.00	.25	.25	.24	.25
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	1	356,022	.16	-	.26	-	-	-	.26	.27
Foreign Language Proficiency	1	305	.20	-	.26	-	-	-	.14	.38
Arts and Humanities	3	363,385	.23	.02	.38	.00	.38	.38	.35	.41
Behavioral Content Knowledge	1	201	.02	-	.05	-	-	-	-.22	.31
Business Knowledge	1	357,837	.16	-	.26	-	-	-	.25	.26
Occupational	3	8,624	-.06	.01	-.09	.00	-.09	-.09	-.10	-.08
Military & Police	-	-	-	-	-	-	-	-	-	-
Realistic Knowledge	1	362,744	.01	-	.02	-	-	-	.02	.03
General Science Knowledge	5	1,023	-.06	.09	-.10	.08	-.21	.01	-.21	.00
Life Sciences Knowledge	2	364,141	.15	.01	.23	.00	.23	.23	.21	.24
Mechanical Knowledge	3	363,689	.00	.00	.01	.01	.00	.01	.00	.01
Natural Sciences Knowledge	1	359	-.10	-	-.14	-	-	-	-.26	-.01
Physical Sciences Knowledge	2	367,070	.01	.00	.01	.00	.01	.01	.01	.01
compound (Nat. Sci. Knowl. & Phy. Sci. Knowl.)	4	6,933	-.07	.03	-.10	.00	-.10	-.10	-.13	-.07
Social Studies Knowledge	5	362,835	.12	.01	.17	.00	.17	.17	.16	.18
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	2	294	.09	.01	.11	.00	.11	.11	.10	.13
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	1	138	-.05	-	-.07	-	-	-	-.25	.12
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	1	221	.02	-	.02	-	-	-	-.13	.18
Compounds										
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	1	360,673	-.03	-	-.04	-	-	-	-.04	-.03
Acquired Knowl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	5	8,784	.00	.03	.00	.02	-.03	.02	-.03	.03

Fluid & Processing Speed	8	1,396	-.06	.06	-.08	.00	-.08	-.08	-.13	-.04
Fluid & Visual Processing	5	935	.11	.11	.15	.11	.00	.29	.03	.26
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	2	569	.11	.02	.15	.00	.15	.15	.11	.18
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S258. Meta-analytic results describing cognitive abilities’ relations with openness-intellect.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	64	27,736	.21	.14	.26	.15	.06	.46	.23	.30
Fluid	57	48,891	.08	.06	.10	.06	.02	.18	.08	.12
Induction	64	36,929	.11	.13	.15	.16	-.05	.35	.11	.18
General Sequential Reasoning	37	11,809	.24	.11	.31	.12	.16	.45	.27	.34
Quantitative Reasoning	18	2,812	.09	.14	.11	.15	-.08	.30	.04	.18
Memory	-	-	-	-	-	-	-	-	-	-
Long Term Storage and Retrieval	2	2,545	.03	.10	.05	.13	-.12	.21	-.11	.20
Learning Efficiency	2	306	.13	.01	.17	.00	.17	.17	.16	.18
Associative Memory	1	153	.24	-	.31	-	-	-	.15	.47
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	1	2,366	.17	-	.22	-	-	-	.18	.26
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	4	1,141	.07	.20	.09	.26	-.24	.42	-.13	.32
Ideational Fluency	10	1,894	.15	.10	.19	.09	.07	.31	.12	.26
Associational Fluency	6	3,451	.15	.11	.19	.13	.02	.36	.10	.29
Expressional Fluency	6	1,252	.00	.11	.00	.11	-.14	.15	-.09	.10
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	9	1,654	.03	.16	.04	.18	-.20	.28	-.07	.15
Naming Facility and Speed of Lexical Access	3	2,746	.03	.02	.05	.00	.05	.05	.02	.08
Word Fluency	4	2,836	.17	.11	.22	.14	.04	.40	.10	.35
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	1	2,365	.17	-	.21	-	-	-	.17	.25
Working Memory Capacity	7	956	.17	.10	.21	.07	.12	.30	.13	.29
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	4	1,312	.03	.08	.04	.07	-.04	.12	-.04	.12
Visualization	10	1,718	.15	.10	.20	.08	.09	.30	.13	.26

Closure Speed	2	557	.12	.03	.16	.00	.16	.16	.11	.21
Flexibility of Closure	1	164	.05	-	.06	-	-	-	-.10	.23
Spatial Scanning	-	-	-	-	-	-	-	-	-	-
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	2	353	.13	.06	.17	.00	.17	.17	.09	.25
Perceptual Speed	6	947	.10	.11	.13	.09	.02	.24	.04	.22
Scanning	5	875	.02	.13	.02	.14	-.16	.20	-.11	.15
Pattern Recognition	1	189	.10	-	.13	-	-	-	-.03	.28
Number Facility	2	129	.12	.14	.15	.09	.04	.26	-.05	.35
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	3	238	-.05	.07	-.07	.00	-.07	-.07	-.15	.02
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	4	534	.00	.12	.00	.11	-.14	.15	-.13	.13
Acquired Knowledge	4	1,162	.10	.12	.12	.13	-.05	.29	.00	.25
Quantitative Ability	1	342	.15	-	.19	-	-	-	.08	.29
Mathematics Knowledge	2	2,254	.13	.09	.16	.11	.02	.29	.03	.29
Mathematics Achievement	3	874	.05	.09	.07	.09	-.05	.18	-.05	.18
Verbal Ability	13	2,666	.22	.25	.27	.29	-.11	.65	.13	.41
Reading and Writing	2	2,554	.22	.03	.27	.00	.27	.27	.23	.32
Reading Comprehension	2	131	.29	.09	.38	.00	.38	.38	.23	.52
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	-	-	-	-	-	-	-	-	-	-
Writing Ability	-	-	-	-	-	-	-	-	-	-
Spelling Ability	-	-	-	-	-	-	-	-	-	-
Comprehension Knowledge	1	178	.14	-	.18	-	-	-	.03	.33

General Verbal Information	3	812	.16	.08	.20	.06	.11	.28	.10	.29
Language Development	-	-	-	-	-	-	-	-	-	-
Lexical Knowledge	16	9,211	.08	.10	.10	.11	-.05	.24	.05	.15
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	2	1,878	.09	.04	.14	.00	.14	.14	.08	.21
Foreign Language Proficiency	1	484	-.01	-	-.01	-	-	-	-.11	.08
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	1	247	-.04	-	-.09	-	-	-	-.32	.14
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	1	178	.14	-	.18	-	-	-	.02	.35
Realistic Knowledge	1	178	.15	-	.23	-	-	-	.05	.41
General Science Knowledge	1	155	.39	-	.60	-	-	-	.43	.78
Life Sciences Knowledge	2	3,821	.07	.01	.09	.00	.09	.09	.08	.11
Mechanical Knowledge	3	421	.23	.07	.30	.00	.30	.30	.20	.39
Natural Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Physical Sciences Knowledge	3	537	.10	.12	.13	.12	-.03	.29	-.02	.28
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	1	178	.23	-	.32	-	-	-	.15	.48
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	2	385	-.02	.06	-.03	.00	-.03	-.03	-.13	.07
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	1	202	.21	-	.26	-	-	-	.12	.40
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	2	556	.09	.00	.11	.00	.11	.11	.11	.11
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	1	452	-.07	-	-.09	-	-	-	-.19	.01

Fluid & Processing Speed	-	-	-	-	-	-	-	-	-	-
Fluid & Visual Processing	7	1,792	.14	.09	.17	.09	.06	.29	.10	.25
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S259. Meta-analytic results describing cognitive abilities’ relations with openness--need for cognition.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	29	9,476	.25	.14	.28	.15	.10	.47	.23	.33
Fluid	12	3,008	.19	.10	.23	.09	.12	.35	.18	.29
Induction	11	2,739	.11	.10	.14	.10	.01	.27	.07	.20
General Sequential Reasoning	3	1,061	.20	.06	.25	.02	.22	.28	.18	.31
Quantitative Reasoning	4	2,127	.20	.09	.24	.10	.11	.37	.15	.33
Memory	-	-	-	-	-	-	-	-	-	-
Long Term Storage and Retrieval	1	189	.19	-	.24	-	-	-	.10	.39
Learning Efficiency	3	2,507	.19	.06	.23	.06	.16	.31	.16	.31
Associative Memory	3	458	.04	.16	.05	.17	-.17	.26	-.14	.23
Meaningful Memory	1	167	.26	-	.32	-	-	-	.17	.47
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	1	1,567	.17	-	.20	-	-	-	.15	.25
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	1	1,015	.08	-	.11	-	-	-	.04	.17
Ideational Fluency	1	102	.18	-	.22	-	-	-	.03	.42
Associational Fluency	-	-	-	-	-	-	-	-	-	-
Expressional Fluency	-	-	-	-	-	-	-	-	-	-
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	-	-	-	-	-	-	-	-	-	-
Naming Facility and Speed of Lexical Access	1	1,065	-.05	-	-.07	-	-	-	-.14	.00
Word Fluency	-	-	-	-	-	-	-	-	-	-
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	4	2,350	.15	.07	.18	.06	.10	.25	.11	.24
Working Memory Capacity	7	2,392	.14	.09	.16	.09	.05	.27	.10	.23
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	4	603	.06	.05	.07	.00	.07	.07	.02	.11
Visualization	3	560	.19	.11	.23	.10	.09	.36	.10	.35

Closure Speed	2	320	.16	.14	.20	.14	.02	.38	.00	.40
Flexibility of Closure	-	-	-	-	-	-	-	-	-	-
Spatial Scanning	-	-	-	-	-	-	-	-	-	-
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	1	167	.11	-	.14	-	-	-	-.01	.30
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	2	336	.05	.06	.06	.00	.06	.06	-.02	.14
Perceptual Speed	8	3,342	.11	.09	.13	.09	.01	.25	.07	.19
Scanning	2	260	.14	.08	.18	.00	.18	.18	.06	.29
Pattern Recognition	2	291	.06	.00	.07	.00	.07	.07	.07	.07
Number Facility	1	213	.05	-	.05	-	-	-	-.08	.18
Reaction and Decision Speed	1	138	.18	-	.22	-	-	-	.05	.38
Simple Reaction Time	-	-	-	-	-	-	-	-	-	-
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge	-	-	-	-	-	-	-	-	-	-
Quantitative Ability	4	509	.02	.06	.02	.00	.02	.02	-.03	.08
Mathematics Knowledge	3	534	.11	.12	.13	.10	.00	.26	.00	.26
Mathematics Achievement	-	-	-	-	-	-	-	-	-	-
Verbal Ability	6	1,036	.22	.03	.25	.00	.25	.25	.23	.28
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	5	1,108	.29	.02	.35	.00	.35	.35	.33	.38
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	-	-	-	-	-	-	-	-	-	-
Writing Ability	-	-	-	-	-	-	-	-	-	-
Spelling Ability	-	-	-	-	-	-	-	-	-	-
Comprehension Knowledge	1	167	.29	-	.34	-	-	-	.20	.48

General Verbal Information	5	619	.22	.09	.26	.04	.21	.31	.18	.34
Language Development	-	-	-	-	-	-	-	-	-	-
Lexical Knowledge	22	5,040	.21	.11	.24	.11	.11	.38	.20	.29
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	2	483	.34	.00	.51	.00	.51	.51	.51	.52
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	-	-	-	-	-	-	-	-	-	-
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	3	616	.30	.02	.44	.00	.44	.44	.41	.47
Life Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Mechanical Knowledge	1	213	.23	-	.27	-	-	-	.14	.40
Natural Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Physical Sciences Knowledge	1	213	.08	-	.10	-	-	-	-.03	.24
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	2	500	.30	.10	.38	.09	.27	.49	.24	.53
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	1	240	.25	-	.29	-	-	-	.18	.41
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	1	138	.22	-	.27	-	-	-	.11	.42

Fluid & Processing Speed	-	-	-	-	-	-	-	-	-	-
Fluid & Visual Processing	1	2,257	.30	-	.36	-	-	-	.32	.40
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S260. Meta-analytic results describing cognitive abilities’ relations with openness--ideas.

Cognitive Ability Construct	Total K	Total N	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD$\hat{\rho}$</i>	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	83	27,990	.31	.14	.40	.16	.20	.60	.37	.43
Fluid	54	44,000	.17	.05	.22	.03	.18	.27	.21	.24
Induction	90	41,165	.13	.08	.18	.09	.06	.29	.16	.20
General Sequential Reasoning	34	8,660	.06	.10	.09	.09	-.04	.21	.05	.12
Quantitative Reasoning	17	2,603	.17	.11	.22	.09	.11	.34	.17	.28
Memory	1	291	.20	-	.27	-	-	-	.15	.40
Long Term Storage and Retrieval	-	-	-	-	-	-	-	-	-	-
Learning Efficiency	10	1,054	-.01	.11	-.01	.06	-.08	.07	-.08	.07
Associative Memory	2	247	.29	.10	.38	.05	.31	.45	.23	.53
Meaningful Memory	1	229	.13	-	.18	-	-	-	.03	.32
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	1	70	.16	-	.21	-	-	-	-.05	.47
Long Term Visual Memory	1	269	.20	-	.27	-	-	-	.14	.40
Retrieval Fluency	2	358	.29	.06	.40	.00	.40	.40	.31	.49
Ideational Fluency	7	3,912	.15	.06	.21	.06	.13	.28	.15	.26
Associational Fluency	4	920	.22	.19	.30	.23	-.01	.60	.09	.50
Expressional Fluency	4	855	.10	.09	.14	.08	.04	.24	.04	.25
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	5	949	.13	.13	.18	.15	-.01	.37	.05	.31
Naming Facility and Speed of Lexical Access	1	164	.11	-	.18	-	-	-	-.02	.37
Word Fluency	11	1,745	.22	.09	.30	.05	.24	.36	.24	.36
Short Term Memory	1	70	.16	-	.21	-	-	-	-.04	.47
Memory Span	19	2,471	.15	.11	.19	.08	.08	.30	.14	.25
Working Memory Capacity	15	1,626	.19	.13	.25	.10	.12	.38	.18	.32
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	9	2,492	.23	.10	.31	.10	.18	.43	.24	.38
Visualization	23	3,726	.18	.11	.24	.10	.11	.37	.19	.29

Closure Speed	6	1,438	.17	.04	.22	.00	.22	.22	.19	.25
Flexibility of Closure	7	1,826	.19	.07	.26	.05	.19	.32	.20	.32
Spatial Scanning	-	-	-	-	-	-	-	-	-	-
Perceptual Illusions	4	980	.10	.07	.12	.01	.11	.14	.05	.19
Visual Memory	1	269	.22	-	.30	-	-	-	.17	.43
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	3	565	.11	.07	.14	.01	.12	.15	.05	.23
Perceptual Speed	18	2,308	.15	.13	.19	.12	.04	.34	.13	.25
Scanning	3	575	.14	.15	.19	.19	-.05	.43	-.01	.39
Pattern Recognition	1	142	.16	-	.21	-	-	-	.03	.39
Number Facility	1	80	.09	-	.11	-	-	-	-.12	.34
Reaction and Decision Speed	1	229	.07	-	.09	-	-	-	-.05	.24
Simple Reaction Time	1	243	.36	-	.52	-	-	-	.39	.65
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	1	527	.12	-	.16	-	-	-	.06	.25
Mental Comparison Speed	1	296	-.05	-	-.07	-	-	-	-.19	.06
Acquired Knowledge	4	1,220	.30	.10	.38	.10	.25	.52	.28	.49
Quantitative Ability	2	632	-.04	.06	-.06	.00	-.06	-.05	-.14	.03
Mathematics Knowledge	-	-	-	-	-	-	-	-	-	-
Mathematics Achievement	3	2,052	.22	.09	.30	.10	.17	.43	.19	.42
Verbal Ability	23	4,771	.25	.14	.32	.16	.12	.52	.26	.39
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	3	1,151	.31	.12	.42	.13	.25	.59	.27	.57
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	1	229	-.30	-	-.39	-	-	-	-.52	-.26
Native Language Usage	-	-	-	-	-	-	-	-	-	-
Writing Ability	1	62	-.04	-	-.05	-	-	-	-.32	.22
Spelling Ability	-	-	-	-	-	-	-	-	-	-
Comprehension Knowledge	6	1,566	.28	.18	.36	.21	.09	.64	.21	.52

General Verbal Information	11	2,375	.29	.21	.38	.26	.05	.70	.24	.51
Language Development	1	114	.27	-	.35	-	-	-	.17	.54
Lexical Knowledge	36	8,463	.30	.15	.40	.17	.18	.61	.34	.45
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	-	-	-	-	-	-	-	-	-	-
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	1	62	.08	-	.11	-	-	-	-.18	.40
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	1	142	.13	-	.21	-	-	-	-.01	.43
Life Sciences Knowledge	1	62	-.03	-	-.04	-	-	-	-.35	.26
Mechanical Knowledge	-	-	-	-	-	-	-	-	-	-
Natural Sciences Knowledge	1	1,614	.30	-	.41	-	-	-	.36	.47
Physical Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	2	1,676	.35	.08	.50	.07	.41	.59	.36	.64
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	2	385	.03	.02	.04	.00	.04	.04	.01	.07
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	1	185	.40	-	.51	-	-	-	.38	.64
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	-	-	-	-	-	-	-	-	-	-

Fluid & Processing Speed	2	369	-.06	.11	-.08	.11	-.23	.06	-.26	.09
Fluid & Visual Processing	4	1,216	.20	.17	.26	.21	-.01	.53	.08	.45
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	1	229	.15	-	.20	-	-	-	.06	.34
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S261. Meta-analytic results describing cognitive abilities’ relations with openness--curiosity.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	12	9,400	.14	.11	.17	.13	.01	.33	.10	.23
Fluid	4	1,171	.11	.29	.15	.37	-.32	.62	-.16	.46
Induction	9	73,707	.17	.02	.22	.00	.22	.22	.20	.23
General Sequential Reasoning	-	-	-	-	-	-	-	-	-	-
Quantitative Reasoning	3	72,310	.15	.02	.19	.01	.17	.20	.17	.21
Memory	-	-	-	-	-	-	-	-	-	-
Long Term Storage and Retrieval	-	-	-	-	-	-	-	-	-	-
Learning Efficiency	-	-	-	-	-	-	-	-	-	-
Associative Memory	-	-	-	-	-	-	-	-	-	-
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	-	-	-	-	-	-	-	-	-	-
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	-	-	-	-	-	-	-	-	-	-
Ideational Fluency	2	479	.11	.08	.15	.06	.08	.22	.03	.27
Associational Fluency	-	-	-	-	-	-	-	-	-	-
Expressional Fluency	-	-	-	-	-	-	-	-	-	-
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	-	-	-	-	-	-	-	-	-	-
Naming Facility and Speed of Lexical Access	-	-	-	-	-	-	-	-	-	-
Word Fluency	-	-	-	-	-	-	-	-	-	-
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	-	-	-	-	-	-	-	-	-	-
Working Memory Capacity	-	-	-	-	-	-	-	-	-	-
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	2	2,161	-.05	.01	-.06	.00	-.06	-.06	-.07	-.05
Visualization	6	72,634	.16	.02	.21	.01	.19	.23	.19	.23

Closure Speed	1	404	.01	-	.01	-	-	-	-.09	.12
Flexibility of Closure	2	71,946	.16	.01	.21	.00	.21	.21	.20	.22
Spatial Scanning	-	-	-	-	-	-	-	-	-	-
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	1	183	-.07	-	-.09	-	-	-	-.24	.06
Perceptual Speed	-	-	-	-	-	-	-	-	-	-
Scanning	2	71,946	.06	.01	.08	.00	.07	.09	.07	.09
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	-	-	-	-	-	-	-	-	-	-
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	-	-	-	-	-	-	-	-	-	-
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge	1	178	.09	-	.11	-	-	-	-.04	.26
Quantitative Ability	-	-	-	-	-	-	-	-	-	-
Mathematics Knowledge	2	71,946	.16	.01	.20	.00	.20	.20	.19	.21
Mathematics Achievement	-	-	-	-	-	-	-	-	-	-
Verbal Ability	1	448	.20	-	.25	-	-	-	.15	.34
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	-	-	-	-	-	-	-	-	-	-
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	-	-	-	-	-	-	-	-	-	-
Writing Ability	-	-	-	-	-	-	-	-	-	-
Spelling Ability	-	-	-	-	-	-	-	-	-	-
Comprehension Knowledge	1	178	.00	-	.00	-	-	-	-.16	.15

General Verbal Information	1	404	.16	-	.20	-	-	-	.10	.30
Language Development	-	-	-	-	-	-	-	-	-	-
Lexical Knowledge	6	72,980	.20	.02	.25	.00	.25	.25	.23	.26
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	1	178	.03	-	.05	-	-	-	-.15	.25
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	1	178	.08	-	.10	-	-	-	-.06	.27
Realistic Knowledge	1	178	.08	-	.12	-	-	-	-.06	.31
General Science Knowledge	2	71,946	.27	.02	.42	.00	.42	.42	.38	.46
Life Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Mechanical Knowledge	-	-	-	-	-	-	-	-	-	-
Natural Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Physical Sciences Knowledge	3	72,124	.13	.01	.18	.00	.18	.18	.17	.19
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	1	178	.13	-	.18	-	-	-	.01	.35
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds										
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	2	71,946	.16	.01	.21	.00	.21	.21	.20	.21
Acquired Knwl., Psychomotor Speed, & Vis. Proc. Fluid & Memory	-	-	-	-	-	-	-	-	-	-

Fluid & Processing Speed	-	-	-	-	-	-	-	-	-	-
Fluid & Visual Processing	1	675	.02	-	.03	-	-	-	-.05	.11
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S262. Meta-analytic results describing cognitive abilities’ relations with openness--introspection.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	61	29,774	.14	.12	.19	.15	.00	.38	.16	.22
Fluid	11	2,617	.06	.08	.08	.06	.01	.16	.03	.14
Induction	30	77,115	.07	.04	.10	.04	.04	.15	.08	.11
General Sequential Reasoning	8	845	.03	.10	.04	.00	.04	.04	-.04	.12
Quantitative Reasoning	6	73,028	.01	.01	.01	.01	.01	.02	.01	.02
Memory	-	-	-	-	-	-	-	-	-	-
Long Term Storage and Retrieval	-	-	-	-	-	-	-	-	-	-
Learning Efficiency	-	-	-	-	-	-	-	-	-	-
Associative Memory	5	443	.16	.20	.22	.24	-.10	.53	.01	.43
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	-	-	-	-	-	-	-	-	-	-
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	1	100	-.07	-	-.10	-	-	-	-.35	.14
Ideational Fluency	5	766	.08	.07	.12	.00	.12	.12	.04	.19
Associational Fluency	3	368	.01	.06	.02	.00	.02	.02	-.06	.10
Expressional Fluency	4	532	.15	.09	.22	.04	.17	.28	.11	.34
Sensitivity to Problems and Alt. Solutions	2	156	.03	.06	.04	.00	.04	.04	-.07	.15
Originality and Creativity	8	1,068	.11	.09	.16	.04	.10	.21	.08	.24
Naming Facility and Speed of Lexical Access	1	164	.15	-	.25	-	-	-	.04	.45
Word Fluency	10	1,399	.04	.12	.06	.13	-.10	.23	-.03	.16
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	2	320	.10	.18	.13	.22	-.15	.41	-.15	.42
Working Memory Capacity	1	100	.05	-	.07	-	-	-	-.16	.29
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	1	675	.04	-	.05	-	-	-	-.04	.14
Visualization	10	73,135	.00	.01	.00	.01	-.02	.01	-.01	.01

Closure Speed	1	266	.06	-	.08	-	-	-	-.06	.23
Flexibility of Closure	9	73,545	.02	.03	.02	.04	-.03	.07	.00	.04
Spatial Scanning	2	310	.18	.16	.25	.19	.00	.50	-.01	.51
Perceptual Illusions	4	980	.10	.07	.14	.04	.09	.20	.06	.22
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	1	100	-.02	-	-.03	-	-	-	-.25	.20
Perceptual Speed	6	865	.10	.07	.14	.00	.14	.14	.07	.20
Scanning	7	72,516	-.05	.01	-.08	.00	-.08	-.08	-.09	-.07
Pattern Recognition	1	142	.09	-	.13	-	-	-	-.06	.33
Number Facility	6	787	-.04	.07	-.05	.00	-.05	-.05	-.11	.01
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	-	-	-	-	-	-	-	-	-	-
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	1	65	-.06	-	-.09	-	-	-	-.38	.20
Acquired Knowledge	3	594	.16	.03	.22	.00	.22	.22	.17	.26
Quantitative Ability	1	342	.08	-	.11	-	-	-	-.01	.23
Mathematics Knowledge	2	71,946	.04	.00	.05	.00	.05	.05	.05	.06
Mathematics Achievement	2	1,756	.25	.15	.37	.20	.11	.62	.12	.61
Verbal Ability	22	5,510	.15	.09	.21	.09	.09	.32	.16	.25
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	3	563	.15	.09	.21	.07	.12	.31	.09	.34
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	4	671	.05	.07	.06	.00	.06	.06	-.02	.15
Native Language Usage	2	416	.07	.03	.10	.00	.10	.10	.05	.15
Writing Ability	-	-	-	-	-	-	-	-	-	-
Spelling Ability	2	416	.03	.10	.04	.11	-.10	.18	-.13	.21
Comprehension Knowledge	3	498	.08	.15	.11	.18	-.12	.35	-.09	.31

General Verbal Information	5	662	.07	.18	.09	.22	-.19	.37	-.09	.28
Language Development	-	-	-	-	-	-	-	-	-	-
Lexical Knowledge	22	77,843	.09	.05	.13	.06	.05	.21	.11	.15
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	1	178	.08	-	.14	-	-	-	-.08	.36
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	1	178	.05	-	.07	-	-	-	-.11	.25
Realistic Knowledge	1	178	.07	-	.12	-	-	-	-.08	.32
General Science Knowledge	4	72,718	.06	.01	.11	.01	.10	.11	.09	.12
Life Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Mechanical Knowledge	1	263	.09	-	.13	-	-	-	-.01	.27
Natural Sciences Knowledge	1	1,614	.30	-	.45	-	-	-	.40	.51
Physical Sciences Knowledge	3	72,124	-.05	.00	-.08	.00	-.08	-.08	-.08	-.07
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	2	1,792	.32	.10	.49	.12	.33	.65	.32	.67
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	1	164	.04	-	.06	-	-	-	-.13	.25
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	1	108	-.09	-	-.12	-	-	-	-.34	.09
Acquired Knowledge & Visual Processing	2	71,946	-.02	.00	-.03	.00	-.03	-.03	-.04	-.03
Acquired Knwl., Psychomotor Speed, & Vis. Proc. Fluid & Memory	-	-	-	-	-	-	-	-	-	-

Fluid & Processing Speed	1	142	-.23	-	-.32	-	-	-	-.50	-.13
Fluid & Visual Processing	1	675	.06	-	.09	-	-	-	.00	.18
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S263. Meta-analytic results describing cognitive abilities’ relations with openness--fantasy.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD$\hat{\rho}$</i>	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	25	6,359	.06	.10	.08	.10	-.04	.20	.04	.12
Fluid	5	616	.10	.15	.13	.16	-.08	.34	-.02	.28
Induction	30	6,074	.08	.09	.11	.06	.03	.19	.08	.15
General Sequential Reasoning	10	1,307	.03	.07	.03	.00	.03	.03	-.01	.08
Quantitative Reasoning	6	1,206	.07	.08	.09	.03	.05	.13	.03	.16
Memory	1	291	-.05	-	-.07	-	-	-	-.20	.06
Long Term Storage and Retrieval	-	-	-	-	-	-	-	-	-	-
Learning Efficiency	10	1,063	-.03	.12	-.04	.09	-.16	.08	-.12	.05
Associative Memory	2	309	.06	.09	.08	.04	.02	.14	-.05	.21
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	1	70	.42	-	.56	-	-	-	.35	.78
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	1	258	.21	-	.29	-	-	-	.15	.42
Ideational Fluency	6	3,508	.14	.07	.18	.07	.10	.27	.12	.24
Associational Fluency	3	691	.05	.16	.07	.19	-.18	.32	-.13	.27
Expressional Fluency	4	855	.06	.10	.08	.11	-.05	.22	-.03	.20
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	4	855	.04	.06	.05	.00	.05	.05	-.02	.12
Naming Facility and Speed of Lexical Access	1	164	.09	-	.13	-	-	-	-.06	.32
Word Fluency	9	1,471	.11	.12	.14	.13	-.02	.30	.05	.23
Short Term Memory	1	70	.10	-	.13	-	-	-	-.12	.39
Memory Span	20	2,106	.00	.14	.00	.14	-.17	.18	-.07	.07
Working Memory Capacity	12	1,090	.12	.09	.15	.00	.15	.15	.09	.21
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	6	1,055	.11	.04	.15	.00	.15	.15	.11	.18
Visualization	22	2,599	.07	.08	.09	.00	.09	.09	.05	.13

Closure Speed	8	950	-.01	.08	-.01	.00	-.01	-.01	-.07	.05
Flexibility of Closure	2	278	-.04	.11	-.05	.10	-.17	.08	-.22	.12
Spatial Scanning	-	-	-	-	-	-	-	-	-	-
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	1	153	.02	-	.03	-	-	-	-.14	.19
Perceptual Speed	19	1,909	.01	.12	.01	.07	-.08	.11	-.04	.07
Scanning	2	294	.05	.02	.07	.00	.07	.07	.04	.10
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	-	-	-	-	-	-	-	-	-	-
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	-	-	-	-	-	-	-	-	-	-
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	1	527	.04	-	.05	-	-	-	-.04	.14
Mental Comparison Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge	-	-	-	-	-	-	-	-	-	-
Quantitative Ability	-	-	-	-	-	-	-	-	-	-
Mathematics Knowledge	-	-	-	-	-	-	-	-	-	-
Mathematics Achievement	-	-	-	-	-	-	-	-	-	-
Verbal Ability	4	929	.17	.15	.21	.17	.00	.43	.06	.37
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	-	-	-	-	-	-	-	-	-	-
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	-	-	-	-	-	-	-	-	-	-
Writing Ability	1	62	-.05	-	-.06	-	-	-	-.33	.20
Spelling Ability	-	-	-	-	-	-	-	-	-	-
Comprehension Knowledge	8	1,666	.11	.10	.14	.10	.02	.27	.07	.22

General Verbal Information	7	800	-.01	.15	-.01	.15	-.21	.19	-.13	.11
Language Development	1	114	.11	-	.14	-	-	-	-.05	.33
Lexical Knowledge	24	2,455	.09	.14	.11	.12	-.05	.27	.05	.17
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	-	-	-	-	-	-	-	-	-	-
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	1	62	.09	-	.12	-	-	-	-.17	.40
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	-	-	-	-	-	-	-	-	-	-
Life Sciences Knowledge	1	62	.20	-	.29	-	-	-	.00	.58
Mechanical Knowledge	-	-	-	-	-	-	-	-	-	-
Natural Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Physical Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	1	62	.01	-	.01	-	-	-	-.29	.31
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	2	385	-.01	.05	-.02	.00	-.02	-.02	-.10	.06
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	-	-	-	-	-	-	-	-	-	-

Fluid & Processing Speed	-	-	-	-	-	-	-	-	-	-
Fluid & Visual Processing	-	-	-	-	-	-	-	-	-	-
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S264. Meta-analytic results describing cognitive abilities’ relations with openness--aesthetics.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	37	13,060	.05	.11	.06	.11	-.08	.21	.03	.10
Fluid	5	1,178	.02	.07	.02	.03	-.02	.06	-.04	.09
Induction	32	77,921	.02	.03	.03	.02	.00	.05	.02	.04
General Sequential Reasoning	7	816	.09	.09	.12	.00	.12	.12	.05	.19
Quantitative Reasoning	8	73,152	-.11	.02	-.15	.02	-.18	-.11	-.16	-.13
Memory	1	291	.20	-	.26	-	-	-	.14	.39
Long Term Storage and Retrieval	-	-	-	-	-	-	-	-	-	-
Learning Efficiency	10	1,053	-.01	.12	-.02	.09	-.13	.10	-.10	.07
Associative Memory	2	247	.19	.20	.25	.23	-.05	.54	-.05	.54
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	1	70	.12	-	.16	-	-	-	-.10	.41
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	1	258	.23	-	.31	-	-	-	.18	.44
Ideational Fluency	3	2,911	.09	.03	.12	.00	.12	.12	.08	.16
Associational Fluency	1	258	.27	-	.35	-	-	-	.23	.48
Expressional Fluency	1	258	.20	-	.27	-	-	-	.14	.41
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	2	352	.13	.05	.17	.00	.17	.17	.08	.26
Naming Facility and Speed of Lexical Access	-	-	-	-	-	-	-	-	-	-
Word Fluency	7	1,027	.13	.06	.17	.00	.17	.17	.13	.22
Short Term Memory	1	70	.03	-	.04	-	-	-	-.21	.29
Memory Span	20	2,113	.06	.14	.07	.12	-.08	.23	.01	.14
Working Memory Capacity	12	1,079	.09	.12	.11	.08	.01	.22	.04	.19
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	9	2,979	.03	.08	.04	.07	-.06	.13	-.02	.09
Visualization	24	74,525	-.07	.03	-.09	.02	-.12	-.06	-.10	-.08

Closure Speed	8	969	.08	.07	.10	.00	.10	.10	.04	.15
Flexibility of Closure	3	72,060	.01	.01	.01	.02	-.01	.03	-.01	.02
Spatial Scanning	-	-	-	-	-	-	-	-	-	-
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	1	153	.20	-	.25	-	-	-	.09	.41
Perceptual Speed	19	1,916	.05	.12	.06	.08	-.04	.16	.01	.12
Scanning	3	72,088	-.06	.01	-.07	.00	-.08	-.07	-.08	-.06
Pattern Recognition	1	142	.18	-	.23	-	-	-	.06	.40
Number Facility	-	-	-	-	-	-	-	-	-	-
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	-	-	-	-	-	-	-	-	-	-
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	1	527	.05	-	.06	-	-	-	-.03	.15
Mental Comparison Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge	1	178	.00	-	.00	-	-	-	-.15	.16
Quantitative Ability	-	-	-	-	-	-	-	-	-	-
Mathematics Knowledge	2	71,946	-.11	.00	-.14	.00	-.14	-.14	-.15	-.14
Mathematics Achievement	1	142	-.03	-	-.04	-	-	-	-.22	.15
Verbal Ability	6	1,316	.19	.06	.24	.00	.24	.24	.18	.29
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	-	-	-	-	-	-	-	-	-	-
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	-	-	-	-	-	-	-	-	-	-
Writing Ability	1	62	-.09	-	-.11	-	-	-	-.37	.15
Spelling Ability	-	-	-	-	-	-	-	-	-	-
Comprehension Knowledge	9	1,862	.12	.08	.15	.06	.07	.23	.09	.21

General Verbal Information	8	960	.09	.09	.11	.00	.11	.11	.05	.18
Language Development	1	114	.14	-	.18	-	-	-	-.01	.37
Lexical Knowledge	22	73,942	.05	.02	.07	.02	.05	.09	.06	.08
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	1	178	-.03	-	-.04	-	-	-	-.24	.16
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	2	240	-.02	.04	-.02	.00	-.02	-.02	-.08	.04
Realistic Knowledge	1	178	-.03	-	-.04	-	-	-	-.22	.14
General Science Knowledge	3	72,088	-.07	.02	-.12	.01	-.13	-.10	-.14	-.09
Life Sciences Knowledge	1	62	.03	-	.04	-	-	-	-.26	.34
Mechanical Knowledge	-	-	-	-	-	-	-	-	-	-
Natural Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Physical Sciences Knowledge	3	72,124	-.13	.01	-.17	.00	-.17	-.17	-.18	-.17
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	2	240	-.02	.07	-.02	.00	-.02	-.02	-.14	.09
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds										
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	2	71,946	-.13	.00	-.16	.00	-.16	-.16	-.16	-.16
Acquired Knwl., Psychomotor Speed, & Vis. Proc. Fluid & Memory	-	-	-	-	-	-	-	-	-	-

Fluid & Processing Speed	1	142	-.22	-	-.28	-	-	-	-.45	-.11
Fluid & Visual Processing	3	1,113	.01	.06	.01	.05	-.06	.07	-.07	.09
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S265. Meta-analytic results describing cognitive abilities’ relations with openness--non traditional.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	116	41,833	.15	.16	.19	.20	-.06	.45	.16	.23
Fluid	23	3,835	.10	.13	.14	.15	-.05	.33	.08	.21
Induction	70	21,238	.18	.13	.26	.16	.06	.46	.22	.29
General Sequential Reasoning	49	13,194	.22	.13	.30	.16	.10	.50	.26	.34
Quantitative Reasoning	18	13,527	.04	.07	.05	.08	-.05	.15	.02	.09
Memory	3	8,833	-.02	.06	-.03	.07	-.12	.07	-.10	.05
Long Term Storage and Retrieval	-	-	-	-	-	-	-	-	-	-
Learning Efficiency	10	1,056	-.01	.07	-.01	.00	-.01	-.01	-.06	.05
Associative Memory	2	247	.17	.22	.24	.28	-.12	.60	-.12	.59
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	3	3,662	.13	.24	.19	.33	-.24	.62	-.13	.51
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	4	1,891	.02	.14	.03	.19	-.21	.27	-.13	.19
Ideational Fluency	13	4,904	.10	.11	.15	.13	-.02	.31	.08	.22
Associational Fluency	6	1,525	.09	.15	.13	.18	-.11	.36	-.01	.26
Expressional Fluency	8	1,461	.09	.07	.13	.00	.13	.13	.07	.19
Sensitivity to Problems and Alt. Solutions	4	504	.13	.08	.19	.00	.19	.19	.10	.28
Originality and Creativity	10	2,076	.09	.10	.12	.09	.00	.24	.05	.20
Naming Facility and Speed of Lexical Access	3	1,905	.08	.07	.12	.09	.00	.24	.01	.23
Word Fluency	13	2,045	.13	.14	.19	.17	-.03	.41	.09	.28
Short Term Memory	1	70	.28	-	.38	-	-	-	.14	.63
Memory Span	28	12,693	-.03	.08	-.04	.09	-.16	.08	-.07	-.01
Working Memory Capacity	15	3,528	.06	.12	.08	.13	-.08	.25	.02	.15
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	17	3,515	.23	.19	.31	.24	.00	.62	.21	.42
Visualization	41	16,742	.07	.09	.10	.10	-.03	.23	.07	.13

Closure Speed	22	10,343	.00	.06	.00	.04	-.06	.05	-.03	.02
Flexibility of Closure	13	1,705	.07	.12	.10	.11	-.04	.24	.02	.17
Spatial Scanning	1	7,868	.03	-	.04	-	-	-	.01	.06
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	1	24	.21	-	.30	-	-	-	-.17	.76
Processing Speed	1	153	-.04	-	-.05	-	-	-	-.23	.12
Perceptual Speed	31	13,806	.04	.15	.05	.19	-.19	.29	-.01	.11
Scanning	7	1,235	.06	.07	.09	.00	.09	.09	.03	.15
Pattern Recognition	3	562	.05	.09	.07	.08	-.03	.17	-.05	.19
Number Facility	5	2,710	.13	.03	.17	.00	.17	.17	.14	.20
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	1	8,272	-.01	-	-.01	-	-	-	-.04	.02
Choice Reaction Time	1	8,272	-.03	-	-.04	-	-	-	-.07	-.02
Decision Time	1	8,272	-.01	-	-.01	-	-	-	-.04	.02
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	2	595	.05	.13	.07	.16	-.14	.29	-.14	.29
Mental Comparison Speed	1	296	.09	-	.13	-	-	-	.00	.26
Acquired Knowledge	3	549	.11	.14	.15	.16	-.06	.36	-.03	.33
Quantitative Ability	2	557	.05	.09	.07	.09	-.04	.18	-.07	.21
Mathematics Knowledge	1	156	.18	-	.23	-	-	-	.06	.40
Mathematics Achievement	3	792	.13	.11	.19	.13	.02	.36	.04	.34
Verbal Ability	16	3,408	.20	.10	.26	.10	.13	.39	.20	.31
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	6	1,457	.22	.20	.31	.27	-.03	.65	.12	.50
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	-	-	-	-	-	-	-	-	-	-
Writing Ability	1	62	.19	-	.26	-	-	-	-.02	.53
Spelling Ability	-	-	-	-	-	-	-	-	-	-
Comprehension Knowledge	18	5,303	.18	.12	.24	.13	.07	.41	.18	.30

General Verbal Information	18	3,747	.09	.10	.13	.10	-.01	.26	.07	.18
Language Development	1	230	.14	-	.18	-	-	-	.04	.33
Lexical Knowledge	45	9,305	.19	.17	.25	.21	-.02	.52	.20	.31
Listening Ability	1	24	.26	-	.38	-	-	-	-.09	.84
Domain Specific Knowledge	1	320	.20	-	.34	-	-	-	.19	.49
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	1	62	.26	-	.37	-	-	-	.08	.65
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	2	462	.14	.02	.24	.00	.24	.24	.20	.27
Life Sciences Knowledge	1	62	.07	-	.11	-	-	-	-.21	.42
Mechanical Knowledge	-	-	-	-	-	-	-	-	-	-
Natural Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Physical Sciences Knowledge	1	354	.53	-	.74	-	-	-	.66	.83
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	2	382	.15	.10	.22	.09	.10	.33	.05	.39
Psychomotor Ability	2	420	.07	.01	.09	.00	.09	.09	.08	.10
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	2	420	.04	.02	.06	.00	.06	.06	.03	.10
Manual Dexterity	2	420	.05	.04	.06	.00	.06	.06	-.01	.13
Psychomotor Speed	2	420	.08	.04	.11	.00	.11	.11	.05	.17
Writing Speed	2	385	-.07	.05	-.10	.00	-.10	-.10	-.18	-.01
Compounds										
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	1	228	.22	-	.29	-	-	-	.15	.43
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	1	153	.29	-	.40	-	-	-	.24	.57

Fluid & Processing Speed	4	1,494	.03	.05	.05	.00	.05	.05	.00	.10
Fluid & Visual Processing	8	4,266	.08	.09	.11	.10	-.02	.24	.04	.18
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	1	298	.20	-	.28	-	-	-	.15	.40
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S266. Meta-analytic results describing cognitive abilities’ relations with openness--variety seeking.

Cognitive Ability Construct	Total K	Total N	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	44	26,897	.03	.10	.04	.12	-.11	.19	.01	.07
Fluid	12	2,197	-.03	.11	-.04	.12	-.19	.11	-.11	.04
Induction	48	11,440	.05	.09	.07	.08	-.03	.18	.04	.10
General Sequential Reasoning	7	1,334	.07	.09	.10	.07	.01	.20	.02	.18
Quantitative Reasoning	8	3,023	.03	.11	.04	.14	-.14	.21	-.05	.13
Memory	1	291	.07	-	.10	-	-	-	-.04	.24
Long Term Storage and Retrieval	-	-	-	-	-	-	-	-	-	-
Learning Efficiency	10	1,067	-.01	.11	-.02	.08	-.13	.09	-.11	.06
Associative Memory	3	594	.00	.05	.00	.00	.00	.00	-.06	.07
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	2	549	-.02	.13	-.03	.16	-.23	.17	-.24	.18
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	1	225	.19	-	.28	-	-	-	.12	.44
Ideational Fluency	6	3,508	.16	.08	.23	.10	.11	.36	.16	.31
Associational Fluency	3	691	.01	.09	.02	.09	-.09	.13	-.10	.14
Expressional Fluency	4	855	.11	.07	.17	.00	.17	.17	.09	.25
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	4	855	.05	.04	.07	.00	.07	.07	.02	.12
Naming Facility and Speed of Lexical Access	1	164	.13	-	.21	-	-	-	.01	.42
Word Fluency	10	1,777	.04	.14	.06	.17	-.17	.28	-.05	.17
Short Term Memory	2	194	.12	.05	.17	.00	.17	.17	.08	.26
Memory Span	17	2,627	.07	.13	.10	.14	-.07	.27	.03	.17
Working Memory Capacity	19	2,923	.06	.13	.08	.14	-.10	.25	.01	.15
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	7	1,637	.14	.13	.20	.16	-.01	.41	.08	.32
Visualization	17	2,539	.03	.11	.04	.10	-.09	.18	-.02	.11

Closure Speed	3	728	.04	.06	.06	.00	.06	.06	-.02	.15
Flexibility of Closure	2	278	.05	.06	.08	.00	.08	.08	-.03	.18
Spatial Scanning	2	310	-.01	.18	-.01	.23	-.31	.28	-.31	.29
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	2	1,462	.09	.02	.12	.00	.12	.12	.09	.15
Perceptual Speed	18	2,624	.06	.11	.08	.10	-.05	.22	.02	.14
Scanning	1	164	.10	-	.15	-	-	-	-.04	.33
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	-	-	-	-	-	-	-	-	-	-
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	-	-	-	-	-	-	-	-	-	-
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	1	53	-.17	-	-.22	-	-	-	-.52	.07
Inspection Time	1	527	.00	-	.00	-	-	-	-.10	.10
Mental Comparison Speed	1	296	.11	-	.16	-	-	-	.02	.29
Acquired Knowledge	2	804	.12	.03	.16	.00	.16	.16	.11	.21
Quantitative Ability	1	138	-.04	-	-.06	-	-	-	-.25	.13
Mathematics Knowledge	-	-	-	-	-	-	-	-	-	-
Mathematics Achievement	1	296	.15	-	.22	-	-	-	.08	.36
Verbal Ability	7	1,614	.01	.09	.01	.08	-.09	.11	-.06	.08
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	3	2,239	.03	.06	.04	.08	-.06	.14	-.05	.13
Reading Decoding	1	795	-.02	-	-.02	-	-	-	-.10	.05
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	1	1,309	-.01	-	-.01	-	-	-	-.08	.06
Writing Ability	1	62	-.22	-	-.30	-	-	-	-.58	-.03
Spelling Ability	-	-	-	-	-	-	-	-	-	-
Comprehension Knowledge	2	937	.20	.04	.27	.00	.27	.27	.21	.34

General Verbal Information	3	871	.10	.02	.14	.00	.14	.14	.11	.16
Language Development	1	114	.11	-	.15	-	-	-	-.06	.36
Lexical Knowledge	25	8,260	.03	.08	.04	.08	-.06	.14	.00	.07
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	-	-	-	-	-	-	-	-	-	-
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	1	62	-.07	-	-.11	-	-	-	-.41	.20
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	-	-	-	-	-	-	-	-	-	-
Life Sciences Knowledge	1	62	.01	-	.02	-	-	-	-.31	.34
Mechanical Knowledge	1	1,730	-.03	-	-.04	-	-	-	-.09	.02
Natural Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Physical Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	1	62	-.14	-	-.21	-	-	-	-.53	.11
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	2	385	-.05	.02	-.07	.00	-.07	-.07	-.12	-.03
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	1	138	.14	-	.20	-	-	-	.01	.39

Fluid & Processing Speed	-	-	-	-	-	-	-	-	-	-
Fluid & Visual Processing	3	947	.04	.09	.06	.10	-.06	.18	-.06	.18
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S267. Meta-analytic results describing cognitive abilities’ relations with compound: openness to emotions.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	18	5,408	.04	.14	.06	.16	-.14	.26	-.01	.12
Fluid	5	671	-.09	.06	-.13	.00	-.13	-.13	-.18	-.07
Induction	31	6,273	.00	.08	.00	.06	-.08	.07	-.04	.03
General Sequential Reasoning	3	315	.04	.08	.06	.00	.06	.06	-.04	.16
Quantitative Reasoning	6	1,206	.10	.16	.13	.18	-.10	.37	-.01	.27
Memory	1	291	-.02	-	-.03	-	-	-	-.16	.10
Long Term Storage and Retrieval	-	-	-	-	-	-	-	-	-	-
Learning Efficiency	10	1,064	.01	.08	.02	.00	.02	.02	-.04	.08
Associative Memory	1	153	.18	-	.24	-	-	-	.07	.41
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	1	70	.19	-	.26	-	-	-	.00	.52
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	1	258	.28	-	.39	-	-	-	.26	.52
Ideational Fluency	3	2,911	.18	.01	.24	.00	.24	.24	.23	.26
Associational Fluency	1	258	.29	-	.39	-	-	-	.26	.52
Expressional Fluency	1	258	.19	-	.27	-	-	-	.13	.41
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	1	258	.05	-	.07	-	-	-	-.07	.21
Naming Facility and Speed of Lexical Access	-	-	-	-	-	-	-	-	-	-
Word Fluency	7	1,040	.15	.08	.21	.01	.19	.22	.14	.28
Short Term Memory	1	70	-.05	-	-.07	-	-	-	-.33	.19
Memory Span	14	1,375	.09	.09	.11	.00	.11	.11	.06	.16
Working Memory Capacity	12	1,091	.08	.08	.10	.00	.10	.10	.05	.15
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	7	1,238	.14	.16	.18	.18	-.06	.41	.05	.31
Visualization	15	1,862	.04	.13	.05	.13	-.11	.21	-.02	.12

Closure Speed	2	220	.03	.03	.05	.00	.05	.05	.00	.10
Flexibility of Closure	1	114	-.03	-	-.04	-	-	-	-.25	.17
Spatial Scanning	-	-	-	-	-	-	-	-	-	-
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	1	153	.11	-	.14	-	-	-	-.03	.31
Perceptual Speed	13	1,181	.09	.13	.12	.09	.00	.23	.04	.19
Scanning	-	-	-	-	-	-	-	-	-	-
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	-	-	-	-	-	-	-	-	-	-
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	-	-	-	-	-	-	-	-	-	-
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	1	527	.07	-	.09	-	-	-	.00	.19
Mental Comparison Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge	-	-	-	-	-	-	-	-	-	-
Quantitative Ability	-	-	-	-	-	-	-	-	-	-
Mathematics Knowledge	-	-	-	-	-	-	-	-	-	-
Mathematics Achievement	-	-	-	-	-	-	-	-	-	-
Verbal Ability	2	500	.15	.08	.20	.06	.13	.27	.08	.31
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	-	-	-	-	-	-	-	-	-	-
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	-	-	-	-	-	-	-	-	-	-
Writing Ability	1	62	-.08	-	-.10	-	-	-	-.37	.17
Spelling Ability	-	-	-	-	-	-	-	-	-	-
Comprehension Knowledge	2	937	.25	.06	.33	.04	.28	.38	.25	.41

General Verbal Information	1	67	.00	-	.00	-	-	-	-.26	.26
Language Development	1	114	.05	-	.07	-	-	-	-.13	.27
Lexical Knowledge	14	1,259	.12	.06	.16	.00	.16	.16	.12	.19
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	-	-	-	-	-	-	-	-	-	-
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	1	62	.06	-	.09	-	-	-	-.20	.38
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	-	-	-	-	-	-	-	-	-	-
Life Sciences Knowledge	1	62	.02	-	.03	-	-	-	-.28	.34
Mechanical Knowledge	-	-	-	-	-	-	-	-	-	-
Natural Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Physical Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	1	62	-.05	-	-.08	-	-	-	-.38	.23
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	1	185	-.01	-	-.01	-	-	-	-.16	.15
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	-	-	-	-	-	-	-	-	-	-

Fluid & Processing Speed	-	-	-	-	-	-	-	-	-	-
Fluid & Visual Processing	-	-	-	-	-	-	-	-	-	-
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S268. Meta-analytic results describing cognitive abilities’ relations with compound: tolerance.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	37	18,214	.18	.16	.22	.19	-.02	.47	.17	.28
Fluid	43	42,044	-.07	.05	-.10	.06	-.17	-.02	-.11	-.08
Induction	49	29,319	.00	.08	-.01	.09	-.12	.11	-.03	.02
General Sequential Reasoning	29	7,491	-.06	.08	-.09	.05	-.15	-.02	-.12	-.05
Quantitative Reasoning	10	652	-.02	.22	-.03	.23	-.32	.27	-.17	.12
Memory	-	-	-	-	-	-	-	-	-	-
Long Term Storage and Retrieval	-	-	-	-	-	-	-	-	-	-
Learning Efficiency	-	-	-	-	-	-	-	-	-	-
Associative Memory	-	-	-	-	-	-	-	-	-	-
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	-	-	-	-	-	-	-	-	-	-
Long Term Visual Memory	1	269	.17	-	.23	-	-	-	.10	.36
Retrieval Fluency	2	227	.10	.10	.14	.04	.08	.19	-.02	.29
Ideational Fluency	1	127	.18	-	.24	-	-	-	.05	.43
Associational Fluency	-	-	-	-	-	-	-	-	-	-
Expressional Fluency	-	-	-	-	-	-	-	-	-	-
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	-	-	-	-	-	-	-	-	-	-
Naming Facility and Speed of Lexical Access	-	-	-	-	-	-	-	-	-	-
Word Fluency	2	284	.21	.07	.28	.00	.28	.28	.18	.39
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	2	320	.02	.12	.02	.11	-.12	.16	-.15	.19
Working Memory Capacity	1	222	.11	-	.14	-	-	-	.00	.28
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	-	-	-	-	-	-	-	-	-	-
Visualization	4	742	.21	.07	.27	.00	.27	.27	.20	.34

Closure Speed	2	393	.14	.02	.19	.00	.19	.19	.15	.22
Flexibility of Closure	6	1,675	.21	.04	.27	.00	.27	.27	.24	.30
Spatial Scanning	-	-	-	-	-	-	-	-	-	-
Perceptual Illusions	4	980	.05	.11	.06	.11	-.08	.21	-.05	.18
Visual Memory	1	269	.21	-	.28	-	-	-	.15	.42
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	-	-	-	-	-	-	-	-	-	-
Perceptual Speed	3	589	.19	.07	.24	.00	.24	.24	.16	.32
Scanning	2	488	.06	.23	.08	.30	-.31	.47	-.28	.45
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	1	80	.11	-	.14	-	-	-	-.09	.37
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	-	-	-	-	-	-	-	-	-	-
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge	2	416	.25	.16	.32	.19	.08	.56	.08	.56
Quantitative Ability	1	290	-.09	-	-.11	-	-	-	-.24	.01
Mathematics Knowledge	-	-	-	-	-	-	-	-	-	-
Mathematics Achievement	1	1,614	.25	-	.34	-	-	-	.29	.40
Verbal Ability	11	3,066	.21	.13	.27	.14	.09	.44	.19	.34
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	-	-	-	-	-	-	-	-	-	-
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	-	-	-	-	-	-	-	-	-	-
Writing Ability	-	-	-	-	-	-	-	-	-	-
Spelling Ability	-	-	-	-	-	-	-	-	-	-
Comprehension Knowledge	3	589	.24	.21	.31	.26	-.02	.64	.05	.57

General Verbal Information	4	689	.21	.18	.27	.21	.01	.54	.08	.46
Language Development	-	-	-	-	-	-	-	-	-	-
Lexical Knowledge	9	3,864	.28	.10	.36	.11	.22	.51	.29	.43
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	-	-	-	-	-	-	-	-	-	-
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	-	-	-	-	-	-	-	-	-	-
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	-	-	-	-	-	-	-	-	-	-
Life Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Mechanical Knowledge	-	-	-	-	-	-	-	-	-	-
Natural Sciences Knowledge	1	1,614	.29	-	.40	-	-	-	.34	.45
Physical Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	1	1,614	.35	-	.49	-	-	-	.44	.54
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	-	-	-	-	-	-	-	-	-	-

Fluid & Processing Speed	-	-	-	-	-	-	-	-	-	-
Fluid & Visual Processing	3	708	.11	.20	.15	.25	-.17	.47	-.10	.40
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S269. Meta-analytic results describing cognitive abilities’ relations with compound: innovation.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	12	2,071	.07	.09	.08	.06	.00	.16	.03	.13
Fluid	45	43,221	.05	.03	.06	.01	.04	.08	.05	.07
Induction	38	90,565	.07	.03	.09	.03	.05	.13	.08	.10
General Sequential Reasoning	7	272	-.01	.19	-.01	.11	-.15	.13	-.15	.13
Quantitative Reasoning	12	72,598	.05	.02	.06	.02	.04	.09	.05	.08
Memory	-	-	-	-	-	-	-	-	-	-
Long Term Storage and Retrieval	-	-	-	-	-	-	-	-	-	-
Learning Efficiency	-	-	-	-	-	-	-	-	-	-
Associative Memory	-	-	-	-	-	-	-	-	-	-
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	-	-	-	-	-	-	-	-	-	-
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	-	-	-	-	-	-	-	-	-	-
Ideational Fluency	1	404	.10	-	.13	-	-	-	.02	.23
Associational Fluency	-	-	-	-	-	-	-	-	-	-
Expressional Fluency	-	-	-	-	-	-	-	-	-	-
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	-	-	-	-	-	-	-	-	-	-
Naming Facility and Speed of Lexical Access	-	-	-	-	-	-	-	-	-	-
Word Fluency	-	-	-	-	-	-	-	-	-	-
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	-	-	-	-	-	-	-	-	-	-
Working Memory Capacity	-	-	-	-	-	-	-	-	-	-
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	1	567	.10	-	.13	-	-	-	.04	.21
Visualization	3	72,350	.11	.00	.13	.00	.13	.13	.13	.14

Closure Speed	1	404	.17	-	.21	-	-	-	.11	.31
Flexibility of Closure	2	71,946	.12	.01	.14	.00	.14	.15	.13	.16
Spatial Scanning	-	-	-	-	-	-	-	-	-	-
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	-	-	-	-	-	-	-	-	-	-
Perceptual Speed	-	-	-	-	-	-	-	-	-	-
Scanning	2	71,946	.05	.00	.06	.00	.06	.06	.06	.07
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	-	-	-	-	-	-	-	-	-	-
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	-	-	-	-	-	-	-	-	-	-
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge	1	178	.13	-	.15	-	-	-	.00	.29
Quantitative Ability	-	-	-	-	-	-	-	-	-	-
Mathematics Knowledge	2	71,946	.01	.00	.01	.00	.01	.01	.00	.01
Mathematics Achievement	-	-	-	-	-	-	-	-	-	-
Verbal Ability	5	628	.14	.12	.16	.09	.04	.29	.06	.27
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	-	-	-	-	-	-	-	-	-	-
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	-	-	-	-	-	-	-	-	-	-
Writing Ability	-	-	-	-	-	-	-	-	-	-
Spelling Ability	-	-	-	-	-	-	-	-	-	-
Comprehension Knowledge	1	178	.16	-	.19	-	-	-	.04	.34

General Verbal Information	1	404	.19	-	.23	-	-	-	.14	.33
Language Development	-	-	-	-	-	-	-	-	-	-
Lexical Knowledge	4	72,768	.10	.01	.13	.00	.13	.13	.12	.14
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	1	178	.12	-	.18	-	-	-	-.01	.37
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	1	178	.12	-	.15	-	-	-	.00	.31
Realistic Knowledge	1	178	.07	-	.11	-	-	-	-.07	.28
General Science Knowledge	2	71,946	.06	.01	.10	.00	.10	.10	.09	.11
Life Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Mechanical Knowledge	-	-	-	-	-	-	-	-	-	-
Natural Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Physical Sciences Knowledge	3	72,124	.07	.00	.09	.00	.09	.09	.09	.10
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	1	178	.08	-	.10	-	-	-	-.06	.27
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds										
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	2	71,946	.08	.00	.10	.00	.10	.10	.10	.11
Acquired Knwl., Psychomotor Speed, & Vis. Proc. Fluid & Memory	-	-	-	-	-	-	-	-	-	-

Fluid & Processing Speed	-	-	-	-	-	-	-	-	-	-
Fluid & Visual Processing	1	567	.05	-	.07	-	-	-	-.02	.15
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S270. Meta-analytic results describing cognitive abilities’ relations with compound: creative personality.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD$\hat{\rho}$</i>	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	16	16,860	.20	.10	.25	.11	.11	.40	.20	.30
Fluid	4	1,455	.11	.10	.15	.11	.00	.29	.04	.26
Induction	11	3,264	.16	.17	.21	.22	-.07	.49	.09	.32
General Sequential Reasoning	1	29	.05	-	.07	-	-	-	-.35	.48
Quantitative Reasoning	-	-	-	-	-	-	-	-	-	-
Memory	-	-	-	-	-	-	-	-	-	-
Long Term Storage and Retrieval	-	-	-	-	-	-	-	-	-	-
Learning Efficiency	-	-	-	-	-	-	-	-	-	-
Associative Memory	-	-	-	-	-	-	-	-	-	-
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	-	-	-	-	-	-	-	-	-	-
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	2	788	.13	.11	.17	.14	.00	.35	.00	.35
Ideational Fluency	4	459	.20	.11	.27	.07	.18	.36	.15	.38
Associational Fluency	1	199	.18	-	.24	-	-	-	.09	.39
Expressional Fluency	1	199	.21	-	.29	-	-	-	.14	.45
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	2	285	.15	.19	.21	.24	-.10	.51	-.10	.52
Naming Facility and Speed of Lexical Access	-	-	-	-	-	-	-	-	-	-
Word Fluency	2	999	.13	.11	.18	.14	.00	.35	.00	.35
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	-	-	-	-	-	-	-	-	-	-
Working Memory Capacity	1	222	.15	-	.19	-	-	-	.05	.33
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	-	-	-	-	-	-	-	-	-	-
Visualization	-	-	-	-	-	-	-	-	-	-

Closure Speed	-	-	-	-	-	-	-	-	-	-
Flexibility of Closure	3	1,597	.16	.04	.21	.00	.21	.21	.16	.26
Spatial Scanning	-	-	-	-	-	-	-	-	-	-
Perceptual Illusions	2	459	.13	.04	.16	.00	.16	.16	.11	.21
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	-	-	-	-	-	-	-	-	-	-
Perceptual Speed	-	-	-	-	-	-	-	-	-	-
Scanning	1	219	-.04	-	-.05	-	-	-	-.20	.10
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	-	-	-	-	-	-	-	-	-	-
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	-	-	-	-	-	-	-	-	-	-
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge	-	-	-	-	-	-	-	-	-	-
Quantitative Ability	1	342	.26	-	.33	-	-	-	.23	.44
Mathematics Knowledge	-	-	-	-	-	-	-	-	-	-
Mathematics Achievement	2	528	-.22	.04	-.30	.00	-.30	-.30	-.37	-.23
Verbal Ability	6	1,115	.29	.19	.37	.23	.08	.66	.20	.53
Reading and Writing	1	231	-.24	-	-.32	-	-	-	-.45	-.18
Reading Comprehension	1	231	-.17	-	-.23	-	-	-	-.37	-.09
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	-	-	-	-	-	-	-	-	-	-
Writing Ability	-	-	-	-	-	-	-	-	-	-
Spelling Ability	-	-	-	-	-	-	-	-	-	-
Comprehension Knowledge	-	-	-	-	-	-	-	-	-	-

General Verbal Information	-	-	-	-	-	-	-	-	-	-
Language Development	-	-	-	-	-	-	-	-	-	-
Lexical Knowledge	4	2,271	.21	.14	.27	.17	.06	.49	.13	.42
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	-	-	-	-	-	-	-	-	-	-
Foreign Language Proficiency	1	297	-.20	-	-.26	-	-	-	-.38	-.14
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	-	-	-	-	-	-	-	-	-	-
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	-	-	-	-	-	-	-	-	-	-
Life Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Mechanical Knowledge	-	-	-	-	-	-	-	-	-	-
Natural Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Physical Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	-	-	-	-	-	-	-	-	-	-
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	-	-	-	-	-	-	-	-	-	-

Fluid & Processing Speed	-	-	-	-	-	-	-	-	-	-
Fluid & Visual Processing	1	.75	.13	-	.17	-	-	-	-.08	.42
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S271. Meta-analytic results describing cognitive abilities’ relations with compound: independent of conventions and others.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	21	15,450	.10	.06	.13	.07	.05	.22	.10	.16
Fluid	41	41,406	.07	.04	.10	.04	.05	.16	.09	.12
Induction	39	21,405	.04	.05	.05	.04	.00	.11	.03	.07
General Sequential Reasoning	6	635	.09	.10	.13	.00	.13	.13	.04	.22
Quantitative Reasoning	9	789	.04	.08	.06	.00	.06	.06	-.01	.12
Memory	-	-	-	-	-	-	-	-	-	-
Long Term Storage and Retrieval	-	-	-	-	-	-	-	-	-	-
Learning Efficiency	-	-	-	-	-	-	-	-	-	-
Associative Memory	-	-	-	-	-	-	-	-	-	-
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	-	-	-	-	-	-	-	-	-	-
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	-	-	-	-	-	-	-	-	-	-
Ideational Fluency	-	-	-	-	-	-	-	-	-	-
Associational Fluency	-	-	-	-	-	-	-	-	-	-
Expressional Fluency	-	-	-	-	-	-	-	-	-	-
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	-	-	-	-	-	-	-	-	-	-
Naming Facility and Speed of Lexical Access	-	-	-	-	-	-	-	-	-	-
Word Fluency	-	-	-	-	-	-	-	-	-	-
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	1	50	.20	-	.27	-	-	-	-.03	.58
Working Memory Capacity	-	-	-	-	-	-	-	-	-	-
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	-	-	-	-	-	-	-	-	-	-
Visualization	1	508	.06	-	.08	-	-	-	-.02	.18

Closure Speed	1	508	.08	-	.11	-	-	-	.01	.21
Flexibility of Closure	-	-	-	-	-	-	-	-	-	-
Spatial Scanning	2	310	.10	.12	.14	.13	-.03	.30	-.06	.33
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	-	-	-	-	-	-	-	-	-	-
Perceptual Speed	3	818	-.03	.09	-.05	.08	-.15	.06	-.16	.06
Scanning	-	-	-	-	-	-	-	-	-	-
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	-	-	-	-	-	-	-	-	-	-
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	-	-	-	-	-	-	-	-	-	-
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge	2	558	.18	.03	.23	.00	.23	.23	.18	.29
Quantitative Ability	-	-	-	-	-	-	-	-	-	-
Mathematics Knowledge	-	-	-	-	-	-	-	-	-	-
Mathematics Achievement	1	9,812	.10	-	.14	-	-	-	.12	.17
Verbal Ability	5	9,992	.10	.02	.13	.01	.12	.13	.10	.15
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	-	-	-	-	-	-	-	-	-	-
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	-	-	-	-	-	-	-	-	-	-
Writing Ability	-	-	-	-	-	-	-	-	-	-
Spelling Ability	-	-	-	-	-	-	-	-	-	-
Comprehension Knowledge	-	-	-	-	-	-	-	-	-	-

General Verbal Information	1	508	.24	-	.32	-	-	-	.23	.42
Language Development	-	-	-	-	-	-	-	-	-	-
Lexical Knowledge	1	508	.22	-	.30	-	-	-	.20	.39
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	-	-	-	-	-	-	-	-	-	-
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	-	-	-	-	-	-	-	-	-	-
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	-	-	-	-	-	-	-	-	-	-
Life Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Mechanical Knowledge	-	-	-	-	-	-	-	-	-	-
Natural Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Physical Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	-	-	-	-	-	-	-	-	-	-
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	-	-	-	-	-	-	-	-	-	-

Fluid & Processing Speed	-	-	-	-	-	-	-	-	-	-
Fluid & Visual Processing	1	508	.13	-	.18	-	-	-	.08	.28
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, \hat{r} = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{r}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S272. Meta-analytic results describing cognitive abilities’ relations with compound: resourcefulness.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	3	1,153	.01	.11	.01	.12	-.14	.16	-.12	.13
Fluid	-	-	-	-	-	-	-	-	-	-
Induction	2	2,240	.19	.10	.25	.13	.09	.42	.10	.41
General Sequential Reasoning	-	-	-	-	-	-	-	-	-	-
Quantitative Reasoning	-	-	-	-	-	-	-	-	-	-
Memory	1	545	.01	-	.01	-	-	-	-.08	.11
Long Term Storage and Retrieval	-	-	-	-	-	-	-	-	-	-
Learning Efficiency	-	-	-	-	-	-	-	-	-	-
Associative Memory	-	-	-	-	-	-	-	-	-	-
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	1	2,041	.17	-	.23	-	-	-	.18	.27
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	-	-	-	-	-	-	-	-	-	-
Ideational Fluency	-	-	-	-	-	-	-	-	-	-
Associational Fluency	-	-	-	-	-	-	-	-	-	-
Expressional Fluency	-	-	-	-	-	-	-	-	-	-
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	1	545	.15	-	.20	-	-	-	.11	.29
Naming Facility and Speed of Lexical Access	-	-	-	-	-	-	-	-	-	-
Word Fluency	-	-	-	-	-	-	-	-	-	-
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	-	-	-	-	-	-	-	-	-	-
Working Memory Capacity	2	315	-.07	.03	-.09	.00	-.09	-.09	-.12	-.05
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	-	-	-	-	-	-	-	-	-	-
Visualization	1	2,041	.08	-	.10	-	-	-	.05	.14

Closure Speed	-	-	-	-	-	-	-	-	-	-
Flexibility of Closure	-	-	-	-	-	-	-	-	-	-
Spatial Scanning	-	-	-	-	-	-	-	-	-	-
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	1	545	.04	-	.05	-	-	-	-.04	.14
Perceptual Speed	1	2,041	.22	-	.27	-	-	-	.23	.31
Scanning	-	-	-	-	-	-	-	-	-	-
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	1	2,041	.23	-	.28	-	-	-	.24	.32
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	-	-	-	-	-	-	-	-	-	-
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge	-	-	-	-	-	-	-	-	-	-
Quantitative Ability	-	-	-	-	-	-	-	-	-	-
Mathematics Knowledge	-	-	-	-	-	-	-	-	-	-
Mathematics Achievement	-	-	-	-	-	-	-	-	-	-
Verbal Ability	1	386	.00	-	.00	-	-	-	-.11	.10
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	-	-	-	-	-	-	-	-	-	-
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	-	-	-	-	-	-	-	-	-	-
Writing Ability	-	-	-	-	-	-	-	-	-	-
Spelling Ability	-	-	-	-	-	-	-	-	-	-
Comprehension Knowledge	-	-	-	-	-	-	-	-	-	-

General Verbal Information	-	-	-	-	-	-	-	-	-	-
Language Development	-	-	-	-	-	-	-	-	-	-
Lexical Knowledge	3	2,356	.28	.07	.35	.08	.25	.45	.26	.44
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	-	-	-	-	-	-	-	-	-	-
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	-	-	-	-	-	-	-	-	-	-
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	-	-	-	-	-	-	-	-	-	-
Life Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Mechanical Knowledge	-	-	-	-	-	-	-	-	-	-
Natural Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
Physical Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	-	-	-	-	-	-	-	-	-	-
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	-	-	-	-	-	-	-	-	-	-

Fluid & Processing Speed	-	-	-	-	-	-	-	-	-	-
Fluid & Visual Processing	-	-	-	-	-	-	-	-	-	-
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S273. Meta-analytic results describing cognitive abilities’ relations with the general factor of personality.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD</i> $\hat{\rho}$	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	48	12,736	.30	.26	.36	.31	-.03	.76	.29	.44
Fluid	43	41,718	-.04	.04	-.05	.03	-.10	-.01	-.07	-.04
Induction	57	32,395	.04	.10	.05	.12	-.10	.21	.02	.08
General Sequential Reasoning	9	604	.00	.16	.00	.13	-.17	.16	-.12	.11
Quantitative Reasoning	17	1,528	.06	.15	.07	.13	-.10	.23	-.01	.14
Memory	-	-	-	-	-	-	-	-	-	-
Long Term Storage and Retrieval	-	-	-	-	-	-	-	-	-	-
Learning Efficiency	-	-	-	-	-	-	-	-	-	-
Associative Memory	-	-	-	-	-	-	-	-	-	-
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	1	474	.22	-	.28	-	-	-	.19	.37
Long Term Visual Memory	-	-	-	-	-	-	-	-	-	-
Retrieval Fluency	2	300	.20	.02	.27	.00	.27	.27	.24	.30
Ideational Fluency	3	551	.11	.04	.14	.00	.14	.14	.09	.19
Associational Fluency	2	300	.06	.07	.08	.00	.08	.08	-.03	.18
Expressional Fluency	2	300	.20	.07	.27	.00	.27	.27	.16	.38
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	2	300	.22	.01	.29	.00	.29	.29	.28	.30
Naming Facility and Speed of Lexical Access	-	-	-	-	-	-	-	-	-	-
Word Fluency	4	787	.17	.02	.23	.00	.23	.23	.21	.25
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	3	655	.24	.12	.30	.13	.14	.47	.16	.45
Working Memory Capacity	1	483	.20	-	.24	-	-	-	.15	.33
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	3	291	.20	.31	.26	.37	-.21	.73	-.11	.62
Visualization	5	555	.03	.10	.04	.04	-.01	.10	-.05	.14

Closure Speed	4	477	-.03	.16	-.03	.17	-.25	.19	-.20	.14
Flexibility of Closure	3	104	.09	.22	.11	.18	-.12	.34	-.16	.38
Spatial Scanning	2	310	.13	.07	.17	.00	.17	.17	.06	.28
Perceptual Illusions	-	-	-	-	-	-	-	-	-	-
Visual Memory	-	-	-	-	-	-	-	-	-	-
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	-	-	-	-	-	-	-	-	-	-
Perceptual Speed	6	787	.08	.15	.10	.15	-.10	.29	-.03	.22
Scanning	4	361	.12	.06	.15	.00	.15	.15	.08	.22
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	2	145	-.04	.32	-.05	.36	-.51	.42	-.50	.41
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	-	-	-	-	-	-	-	-	-	-
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge	2	307	.08	.11	.10	.10	-.03	.23	-.06	.26
Quantitative Ability	1	81	.16	-	.20	-	-	-	-.02	.42
Mathematics Knowledge	-	-	-	-	-	-	-	-	-	-
Mathematics Achievement	5	1,099	.01	.08	.01	.06	-.06	.08	-.07	.09
Verbal Ability	13	1,514	-.02	.10	-.03	.04	-.08	.02	-.09	.03
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	1	65	.02	-	.03	-	-	-	-.24	.30
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	1	108	.13	-	.16	-	-	-	-.03	.36
Native Language Usage	-	-	-	-	-	-	-	-	-	-
Writing Ability	-	-	-	-	-	-	-	-	-	-
Spelling Ability	-	-	-	-	-	-	-	-	-	-
Comprehension Knowledge	2	170	.15	.07	.19	.00	.19	.19	.08	.29

General Verbal Information	4	477	.14	.10	.17	.05	.10	.23	.07	.27
Language Development	-	-	-	-	-	-	-	-	-	-
Lexical Knowledge	16	12,897	.03	.09	.04	.10	-.10	.17	-.01	.08
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	-	-	-	-	-	-	-	-	-	-
Foreign Language Proficiency	1	388	.08	-	.10	-	-	-	.00	.20
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	-	-	-	-	-	-	-	-	-	-
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	-	-	-	-	-	-	-	-	-	-
Military & Police	-	-	-	-	-	-	-	-	-	-
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	-	-	-	-	-	-	-	-	-	-
Life Sciences Knowledge	2	3,828	.00	.02	-.01	.00	-.01	-.01	-.04	.03
Mechanical Knowledge	-	-	-	-	-	-	-	-	-	-
Natural Sciences Knowledge	4	736	.02	.10	.02	.10	-.10	.15	-.09	.14
Physical Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	-	-	-	-	-	-	-	-	-	-
Social Studies Knowledge	4	736	.03	.09	.05	.08	-.06	.15	-.06	.15
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	1	108	.15	-	.18	-	-	-	-.01	.37
Acquired Knowledge & Visual Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	-	-	-	-	-	-	-	-	-	-

Fluid & Processing Speed	-	-	-	-	-	-	-	-	-	-
Fluid & Visual Processing	2	450	.01	.03	.01	.00	.01	.01	-.04	.05
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S274. Meta-analytic results describing cognitive abilities’ relations with factor alpha.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD$\hat{\rho}$</i>	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	103	46,727	.08	.09	.09	.10	-.04	.22	.07	.11
Fluid	17	3,431	.04	.13	.05	.14	-.13	.24	-.02	.12
Induction	95	36,080	.07	.10	.10	.12	-.05	.25	.07	.12
General Sequential Reasoning	9	1,104	-.01	.09	-.02	.00	-.02	-.02	-.08	.04
Quantitative Reasoning	17	55,414	.10	.04	.12	.05	.06	.18	.10	.14
Memory	3	8,444	.05	.03	.06	.02	.03	.09	.03	.10
Long Term Storage and Retrieval	6	2,355	.08	.09	.10	.09	-.02	.22	.03	.18
Learning Efficiency	-	-	-	-	-	-	-	-	-	-
Associative Memory	3	606	.13	.01	.16	.00	.16	.16	.15	.17
Meaningful Memory	1	65	.20	-	.27	-	-	-	.01	.53
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	5	6,751	.10	.04	.13	.03	.09	.17	.09	.17
Long Term Visual Memory	1	269	.03	-	.04	-	-	-	-.09	.18
Retrieval Fluency	5	664	.01	.10	.02	.07	-.07	.11	-.08	.12
Ideational Fluency	17	5,739	.05	.08	.06	.08	-.04	.17	.02	.11
Associational Fluency	6	830	.02	.07	.02	.00	.02	.02	-.04	.09
Expressional Fluency	5	722	.06	.12	.08	.11	-.06	.23	-.04	.20
Sensitivity to Problems and Alt. Solutions	1	100	-.45	-	-.60	-	-	-	-.78	-.43
Originality and Creativity	13	1,512	.00	.23	.00	.29	-.37	.37	-.14	.15
Naming Facility and Speed of Lexical Access	2	174	-.10	.04	-.15	.00	-.15	-.15	-.22	-.08
Word Fluency	14	6,196	.10	.06	.13	.05	.06	.20	.09	.17
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	18	21,609	.08	.07	.11	.08	.01	.21	.07	.14
Working Memory Capacity	11	7,370	.10	.07	.13	.07	.04	.22	.09	.17
Attentional Executive Control	2	179	.21	.30	.26	.35	-.19	.70	-.17	.69
Visual Processing	10	5,757	.03	.05	.04	.03	.00	.07	.01	.07
Visualization	22	13,373	.01	.07	.01	.07	-.08	.10	-.02	.04

Closure Speed	8	8,888	.05	.05	.07	.05	.00	.14	.03	.11
Flexibility of Closure	16	2,559	.03	.06	.04	.00	.04	.04	.00	.07
Spatial Scanning	1	7,868	-.01	-	-.01	-	-	-	-.04	.01
Perceptual Illusions	5	1,216	-.05	.06	-.06	.00	-.06	-.06	-.12	-.01
Visual Memory	3	625	.04	.07	.05	.02	.03	.07	-.04	.14
Auditory Processing	1	237	.09	-	.12	-	-	-	-.02	.26
Processing Speed	7	21,073	.20	.03	.25	.02	.22	.28	.23	.28
Perceptual Speed	20	15,333	.07	.06	.08	.06	.01	.16	.06	.11
Scanning	6	11,026	.01	.04	.01	.04	-.04	.06	-.02	.04
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	14	32,591	.14	.09	.17	.10	.04	.30	.12	.22
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	7	8,734	.02	.04	.02	.03	-.02	.06	-.01	.05
Choice Reaction Time	3	8,452	.03	.01	.04	.00	.04	.04	.03	.05
Decision Time	1	8,272	.00	-	.01	-	-	-	-.02	.03
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	4	1,298	.01	.09	.01	.09	-.10	.12	-.08	.10
Mental Comparison Speed	3	238	.03	.13	.05	.08	-.06	.15	-.11	.20
Acquired Knowledge	4	723	.15	.12	.19	.11	.05	.33	.07	.31
Quantitative Ability	2	160	.18	.30	.22	.35	-.22	.67	-.21	.66
Mathematics Knowledge	3	11,616	.34	.05	.42	.06	.35	.49	.36	.49
Mathematics Achievement	4	2,477	.08	.18	.10	.23	-.19	.40	-.09	.30
Verbal Ability	12	3,549	-.01	.11	-.02	.11	-.16	.12	-.08	.04
Reading and Writing	3	380	.21	.42	.27	.52	-.40	.94	-.24	.78
Reading Comprehension	4	11,605	.30	.03	.40	.00	.40	.40	.36	.44
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	2	1,920	-.09	.02	-.12	.00	-.12	-.12	-.16	-.09
Writing Ability	1	53	.27	-	.34	-	-	-	.08	.61
Spelling Ability	3	2,145	-.03	.10	-.03	.13	-.20	.13	-.17	.10
Comprehension Knowledge	6	810	.10	.15	.12	.16	-.08	.33	-.01	.25

General Verbal Information	9	1,871	.00	.10	.00	.09	-.11	.11	-.07	.07
Language Development	-	-	-	-	-	-	-	-	-	-
Lexical Knowledge	42	15,177	.04	.11	.06	.13	-.11	.22	.02	.09
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	-	-	-	-	-	-	-	-	-	-
Foreign Language Proficiency	1	297	.49	-	.62	-	-	-	.53	.71
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	1	145	.10	-	.22	-	-	-	-.08	.52
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	3	4,832	.05	.02	.07	.00	.07	.07	.05	.09
Military & Police	-	-	-	-	-	-	-	-	-	-
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	-	-	-	-	-	-	-	-	-	-
Life Sciences Knowledge	5	3,888	.00	.04	-.01	.01	-.02	.01	-.04	.03
Mechanical Knowledge	2	409	.07	.09	.09	.07	-.01	.18	-.05	.22
Natural Sciences Knowledge	1	1,614	.00	-	.01	-	-	-	-.05	.06
Physical Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	4	3,706	-.03	.04	-.04	.03	-.08	.01	-.08	.01
Social Studies Knowledge	1	1,614	.02	-	.02	-	-	-	-.03	.08
Psychomotor Ability	1	238	.16	-	.21	-	-	-	.07	.35
Aiming	1	65	.00	-	.00	-	-	-	-.26	.26
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	1	238	.09	-	.12	-	-	-	-.02	.25
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds										
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	4	3,696	.01	.07	.02	.08	-.09	.12	-.06	.09

Fluid & Processing Speed	2	186,970	.00	.01	.00	.01	-.01	.01	-.01	.01
Fluid & Visual Processing	5	1,015	.05	.08	.06	.04	.01	.12	-.01	.14
Memory & Processing Speed	1	107	-.08	-	-.10	-	-	-	-.30	.10
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

Table S275. Meta-analytic results describing cognitive abilities’ relations with factor beta.

Cognitive Ability Construct	Total <i>K</i>	Total <i>N</i>	Mean <i>r</i>	<i>SD_r</i>	$\hat{\rho}$	<i>SD$\hat{\rho}$</i>	Lower 80 CV	Upper 80 CV	Lower 90 CI	Upper 90 CI
General Mental Ability	66	22,759	.16	.16	.20	.18	-.04	.43	.16	.24
Fluid	50	45,592	.03	.04	.04	.02	.02	.07	.03	.06
Induction	78	38,189	.07	.07	.09	.06	.01	.17	.07	.10
General Sequential Reasoning	9	507	.04	.11	.05	.00	.05	.05	-.03	.13
Quantitative Reasoning	11	2,085	.15	.11	.18	.11	.04	.32	.11	.25
Memory	-	-	-	-	-	-	-	-	-	-
Long Term Storage and Retrieval	-	-	-	-	-	-	-	-	-	-
Learning Efficiency	-	-	-	-	-	-	-	-	-	-
Associative Memory	-	-	-	-	-	-	-	-	-	-
Meaningful Memory	-	-	-	-	-	-	-	-	-	-
Episodic Memory	-	-	-	-	-	-	-	-	-	-
Free Recall Memory	-	-	-	-	-	-	-	-	-	-
Long Term Visual Memory	5	1,538	-.03	.06	-.04	.03	-.08	.00	-.10	.02
Retrieval Fluency	3	290	.09	.18	.12	.21	-.15	.38	-.12	.35
Ideational Fluency	7	1,850	.11	.13	.14	.16	-.06	.34	.03	.25
Associational Fluency	-	-	-	-	-	-	-	-	-	-
Expressional Fluency	-	-	-	-	-	-	-	-	-	-
Sensitivity to Problems and Alt. Solutions	-	-	-	-	-	-	-	-	-	-
Originality and Creativity	3	375	.26	.05	.34	.00	.34	.34	.27	.41
Naming Facility and Speed of Lexical Access	-	-	-	-	-	-	-	-	-	-
Word Fluency	7	1,827	.03	.08	.04	.07	-.05	.14	-.03	.11
Short Term Memory	-	-	-	-	-	-	-	-	-	-
Memory Span	4	5,340	.11	.05	.14	.04	.09	.20	.10	.19
Working Memory Capacity	1	222	.07	-	.09	-	-	-	-.05	.23
Attentional Executive Control	-	-	-	-	-	-	-	-	-	-
Visual Processing	4	174	-.03	.14	-.04	.00	-.04	-.04	-.19	.11
Visualization	10	2,236	.04	.09	.05	.08	-.05	.15	-.01	.11

Closure Speed	1	266	.09	-	.12	-	-	-	-.01	.25
Flexibility of Closure	9	2,820	.06	.11	.08	.12	-.08	.23	.00	.15
Spatial Scanning	5	1,542	-.03	.02	-.04	.00	-.04	-.04	-.06	-.02
Perceptual Illusions	4	980	.12	.04	.15	.00	.15	.15	.11	.19
Visual Memory	5	1,540	.01	.03	.01	.00	.01	.01	-.02	.04
Auditory Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed	1	1,309	.06	-	.07	-	-	-	.02	.13
Perceptual Speed	4	466	.05	.23	.07	.27	-.28	.41	-.18	.31
Scanning	6	1,761	.03	.09	.04	.09	-.07	.16	-.04	.12
Pattern Recognition	-	-	-	-	-	-	-	-	-	-
Number Facility	6	1,623	.02	.09	.02	.08	-.08	.12	-.05	.09
Reaction and Decision Speed	-	-	-	-	-	-	-	-	-	-
Simple Reaction Time	-	-	-	-	-	-	-	-	-	-
Choice Reaction Time	-	-	-	-	-	-	-	-	-	-
Decision Time	-	-	-	-	-	-	-	-	-	-
Movement Time	-	-	-	-	-	-	-	-	-	-
Semantic Processing Speed	-	-	-	-	-	-	-	-	-	-
Inspection Time	-	-	-	-	-	-	-	-	-	-
Mental Comparison Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge	2	416	.20	.02	.25	.00	.25	.25	.22	.28
Quantitative Ability	2	375	-.01	.14	-.02	.15	-.22	.18	-.23	.19
Mathematics Knowledge	1	47	.43	-	.54	-	-	-	.29	.78
Mathematics Achievement	2	1,708	.24	.09	.32	.10	.19	.45	.18	.46
Verbal Ability	16	3,678	.23	.11	.28	.11	.14	.41	.22	.33
Reading and Writing	-	-	-	-	-	-	-	-	-	-
Reading Comprehension	2	1,362	.17	.08	.23	.09	.11	.34	.11	.35
Reading Decoding	-	-	-	-	-	-	-	-	-	-
Reading Speed	-	-	-	-	-	-	-	-	-	-
Native Language Usage	2	1,356	.20	.00	.26	.00	.26	.26	.26	.27
Writing Ability	-	-	-	-	-	-	-	-	-	-
Spelling Ability	1	47	-.19	-	-.26	-	-	-	-.57	.06
Comprehension Knowledge	3	383	.08	.17	.10	.18	-.13	.33	-.10	.30

General Verbal Information	3	420	.14	.20	.17	.23	-.12	.46	-.06	.41
Language Development	-	-	-	-	-	-	-	-	-	-
Lexical Knowledge	16	6,637	.17	.15	.21	.18	-.02	.44	.13	.29
Listening Ability	-	-	-	-	-	-	-	-	-	-
Domain Specific Knowledge	2	862	.10	.04	.16	.00	.16	.16	.08	.23
Foreign Language Proficiency	-	-	-	-	-	-	-	-	-	-
Arts and Humanities	-	-	-	-	-	-	-	-	-	-
Behavioral Content Knowledge	5	1,531	-.04	.09	-.08	.16	-.29	.12	-.24	.07
Business Knowledge	-	-	-	-	-	-	-	-	-	-
Occupational	4	262	-.09	.07	-.12	.00	-.12	-.12	-.20	-.03
Military & Police	-	-	-	-	-	-	-	-	-	-
Realistic Knowledge	-	-	-	-	-	-	-	-	-	-
General Science Knowledge	1	320	.10	-	.16	-	-	-	.02	.31
Life Sciences Knowledge	2	3,353	.00	.03	.00	.01	-.01	.02	-.04	.05
Mechanical Knowledge	2	1,777	.20	.03	.25	.00	.25	.25	.21	.30
Natural Sciences Knowledge	1	1,614	.24	-	.32	-	-	-	.27	.38
Physical Sciences Knowledge	-	-	-	-	-	-	-	-	-	-
compound (Nat. Sci. Knwl. & Phy. Sci. Knwl.)	3	168	.03	.06	.03	.00	.03	.03	-.04	.11
Social Studies Knowledge	2	1,934	.31	.08	.43	.07	.33	.52	.30	.55
Psychomotor Ability	-	-	-	-	-	-	-	-	-	-
Aiming	-	-	-	-	-	-	-	-	-	-
Finger Dexterity	-	-	-	-	-	-	-	-	-	-
Manual Dexterity	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed	-	-	-	-	-	-	-	-	-	-
Writing Speed	-	-	-	-	-	-	-	-	-	-
Compounds	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Auditory Processing	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Memory	2	468	-.03	.07	-.04	.04	-.08	.01	-.14	.07
Acquired Knowledge & Processing Speed	-	-	-	-	-	-	-	-	-	-
Acquired Knowledge & Visual Processing	1	547	.06	-	.08	-	-	-	-.01	.16
Acquired Knwl., Psychomotor Speed, & Vis. Proc.	-	-	-	-	-	-	-	-	-	-
Fluid & Memory	3	180	.00	.13	-.01	.00	-.01	-.01	-.16	.15

Fluid & Processing Speed	-	-	-	-	-	-	-	-	-	-
Fluid & Visual Processing	1	99	.18	-	.23	-	-	-	.03	.44
Memory & Processing Speed	-	-	-	-	-	-	-	-	-	-
Memory & Visual Processing	-	-	-	-	-	-	-	-	-	-
Processing Speed & Reaction and Decision Spd.	-	-	-	-	-	-	-	-	-	-
Processing Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-
Psychomotor Speed & Visual Processing	-	-	-	-	-	-	-	-	-	-

Note. Total K = total number of independent effect sizes, Total N = total sample size, Mean r = sample size weighted mean correlation coefficient, SD_r = standard deviation of the observed correlation, $\hat{\rho}$ = mean correlation coefficient corrected for unreliability in both measures, $SD\hat{\rho}$ = standard deviation of the corrected correlation, Lower 80 CV = lower 80% credibility value, Upper 80 CV = upper 80% credibility value, Lower 90 CI = lower 90% confidence value, Upper 90 CI = upper 90% confidence value. Indentation of construct names denotes construct level with lower-level constructs being more indented. Compound abilities share variance from multiple dimensions (e.g., compound: Fluid & Visual Processing reflects fluid and visual processing abilities). Ability and personality trait definitions can be found in tables 13.1 and 13.3 of Stanek and Ones (2018).

References

- Stanek, K. C., & Ones, D. S. (2018). Taxonomies and compendia of cognitive ability and personality constructs and measures relevant to industrial, work and organizational psychology. In D. S. Ones, C. Anderson, C. Viswesvaran, & H. K. Sinangil (Eds.), *The SAGE handbook of industrial, work & organizational psychology: Personnel psychology and employee performance* (pp. 366–407). Sage.