

SUPPLEMENTARY MATERIAL

STUDY 1

Table 1. Correlation matrix of all variables used in Study 1 (N=57).

| Variables | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|-----------------|--------|--------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| 1. Attention 1 | 1 | | | | | | | | | | | |
| 2. Attention 2 | 0.315 | 1 | | | | | | | | | | |
| 3. Word recall | 0.382 | 0.336 | 1 | | | | | | | | | |
| 4. Digit recall | 0.458 | 0.405 | 0.792 | 1 | | | | | | | | |
| 5. Perc aware | 0.317 | 0.363 | 0.492 | 0.468 | 1 | | | | | | | |
| 6. Infer aware | 0.418 | 0.19 | 0.311 | 0.4 | 0.187 | 1 | | | | | | |
| 7. Simil aware | 0.398 | 0.245 | 0.282 | 0.403 | 0.182 | 0.099 | 1 | | | | | |
| 8. Diff aware | 0.345 | 0.188 | 0.258 | 0.394 | 0.185 | 0.018 | 0.141 | 1 | | | | |
| 9. Deductive | -0.035 | 0.054 | 0.209 | 0.15 | 0.119 | -0.023 | 0.083 | 0.156 | 1 | | | |
| 10. Inductive | 0.099 | 0.115 | 0.149 | 0.233 | 0.093 | 0.111 | 0.174 | 0.208 | 0.041 | 1 | | |
| 11. Lang school | 0.421 | 0.312 | 0.463 | 0.617 | 0.299 | 0.11 | 0.367 | 0.535 | 0.195 | 0.378 | 1 | |
| 12. Math school | 0.46 | 0.436 | 0.45 | 0.626 | 0.347 | 0.153 | 0.461 | 0.554 | 0.234 | 0.423 | 0.94 | 1 |
| Mean | -1.735 | -2.887 | 7.589 | 7.929 | 1.643 | 1.625 | 1.244 | 1.631 | 5.482 | 8.679 | 5.646 | 5.625 |
| S.D. | 0.258 | 0.745 | 2.782 | 3.990 | 1.086 | 1.121 | 0.788 | 0.808 | 2.063 | 2.090 | 0.892 | 0.916 |

Note: Perc aware=Perceptual awareness; Infer aware=Inferential awareness; Simil aware=Similarity awareness; Diff aware=Difficulty awareness;

Lang=Language; Math=Mathematics.

Table 1A. Full model including all processes in Study 1 (asterisks indicates free loadings to be estimated; lack of loading indicates loadings fixed to 1).

| STANDARDIZED SOLUTION: | | | | | | R-SQUARED |
|------------------------|------|---|-----------|---|----------|-----------|
| ATT1 | =V5 | = | .620 F1 | + | .785 E5 | .384 |
| ATT2 | =V7 | = | .535*F1 | + | .845 E7 | .286 |
| WORD | =V11 | = | .7960 F2 | + | .605 E11 | .634 |
| DIGIT | =V12 | = | .995*F2 | + | .104 E12 | .989 |
| PERC A | =V15 | = | .534 F31 | + | .845 E15 | .286 |
| INFER A | =V16 | = | .404*F31 | + | .915 E16 | .164 |
| SIMIL A | =V27 | = | .499 F32 | + | .867 E27 | .249 |
| DIFF A | =V29 | = | .566*F32 | + | .824 E29 | .320 |
| DEDUCT | =V38 | = | .247*F4 | + | .969 E38 | .061 |
| INDUCT | =V40 | = | .533 F4 | + | .846 E40 | .285 |
| LANG | =V55 | = | .940 F20 | + | .342 E55 | .883 |
| MATHS | =V56 | = | .999*F20 | + | .035 E56 | .999 |
| ATTENT | =F1 | = | .980*F100 | + | .198 D1 | .961 |
| WM | =F2 | = | .838*F100 | + | .545 D2 | .702 |
| GF | =F4 | = | .521*F100 | + | .854 D4 | .271 |
| GAP | =F20 | = | .749*F100 | + | .410*D4 | .999 |
| | | | | + | .038 D20 | |
| | | | | + | .519*D32 | |
| PIA | =F31 | = | .999*F100 | + | .054 D31 | .997 |
| ACP | =F32 | = | .857*F100 | + | .515 D32 | .735 |

Note: terms as in Note under Fig. 1; also, WM=working memory; PIA=perceptual-inferential awareness; ACP=awareness of cognitive processes.

In the code of EQS, F, E, and D stand for factors, measurement error, and factor residuals; asterisks stand for free loadings to be estimated. Lack of an asterisk indicates a relation fixed to 1.

Model fit: Sattora-Bentler Scaled Chi-square = 47.79, Df = 50, p =.56, CFI=1.00, RMSEA =.00 (CI=.00-.08).

Cronbach's alpha (for the variables included in the model) = .76

Reliability coefficient Rho = .89

STUDY 2

Table 2. Correlation matrix of all variables used in Study 2 (N=196).

| Variables | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1. WM Vis | 1 | | | | | | | | | | | | | | | |
| 2. WM Num | 0.328 | 1 | | | | | | | | | | | | | | |
| 3. WM_Verb | 0.321 | 0.537 | 1 | | | | | | | | | | | | | |
| 4. Stroop Vis Com | -0.011 | -0.247 | -0.262 | 1 | | | | | | | | | | | | |
| 5. Stroop Vis Inc | -0.052 | -0.287 | -0.246 | 0.762 | 1 | | | | | | | | | | | |
| 6. Stroop Num Com | -0.014 | -0.257 | -0.225 | 0.725 | 0.646 | 1 | | | | | | | | | | |
| 7. Stroop Num Inc | 0.047 | -0.236 | -0.199 | 0.731 | 0.674 | 0.763 | 1 | | | | | | | | | |
| 8. Stroop Verb Com | -0.046 | -0.328 | -0.275 | 0.569 | 0.599 | 0.695 | 0.667 | 1 | | | | | | | | |
| 9. Stroop Verb Inc | 0.032 | -0.242 | -0.203 | 0.599 | 0.588 | 0.662 | 0.702 | 0.726 | 1 | | | | | | | |
| 10. Shift Vis | -0.219 | -0.276 | -0.09 | 0.188 | 0.177 | 0.064 | 0.171 | 0.236 | 0.093 | 1 | | | | | | |
| 11. Shift Num | -0.28 | -0.266 | -0.24 | 0.281 | 0.295 | 0.162 | 0.278 | 0.268 | 0.152 | 0.608 | 1 | | | | | |
| 12. Shift Verb | -0.096 | -0.327 | -0.275 | 0.148 | 0.171 | 0.135 | 0.157 | 0.172 | 0.146 | 0.461 | 0.375 | 1 | | | | |
| 13. DCCS MR | -0.213 | -0.32 | -0.154 | 0.095 | 0.153 | 0.049 | 0.079 | 0.073 | 0.034 | 0.293 | 0.332 | 0.322 | 1 | | | |
| 14. DCCS PR | -0.246 | -0.202 | -0.242 | 0.199 | 0.067 | 0.154 | 0.12 | 0.125 | 0.035 | 0.159 | 0.274 | 0.076 | 0.161 | 1 | | |
| 15. Vocabulary | 0.228 | 0.457 | 0.317 | -0.406 | -0.362 | -0.384 | -0.415 | -0.303 | -0.34 | -0.325 | -0.441 | -0.172 | -0.247 | -0.319 | 1 | |
| 16. Written lang | 0.244 | 0.5 | 0.352 | -0.564 | -0.529 | -0.479 | -0.548 | -0.47 | -0.437 | -0.361 | -0.408 | -0.287 | -0.311 | -0.307 | 0.691 | 1 |
| 17. Oral lang | 0.274 | 0.548 | 0.402 | -0.437 | -0.375 | -0.412 | -0.422 | -0.403 | -0.333 | -0.408 | -0.467 | -0.197 | -0.275 | -0.347 | 0.763 | 0.733 |
| 18. Reason R1 | 0.257 | 0.399 | 0.265 | -0.413 | -0.319 | -0.325 | -0.344 | -0.284 | -0.272 | -0.248 | -0.24 | -0.193 | -0.318 | -0.232 | 0.573 | 0.62 |
| 19. Reason R2 | 0.283 | 0.453 | 0.274 | -0.38 | -0.32 | -0.324 | -0.386 | -0.343 | -0.316 | -0.299 | -0.362 | -0.205 | -0.233 | -0.279 | 0.589 | 0.664 |
| 20. Reason R3 | 0.178 | 0.38 | 0.258 | -0.501 | -0.399 | -0.38 | -0.477 | -0.419 | -0.392 | -0.345 | -0.383 | -0.296 | -0.396 | -0.252 | 0.595 | 0.709 |
| 21. Reason P1 | 0.085 | 0.356 | 0.167 | -0.477 | -0.399 | -0.383 | -0.46 | -0.414 | -0.393 | -0.243 | -0.29 | -0.179 | -0.189 | -0.223 | 0.561 | 0.618 |
| 22. Reason P2 | 0.116 | 0.284 | 0.162 | -0.386 | -0.303 | -0.336 | -0.384 | -0.236 | -0.308 | -0.316 | -0.259 | -0.18 | -0.168 | -0.18 | 0.541 | 0.513 |
| 23. Reason P3 | 0.164 | 0.288 | 0.18 | -0.267 | -0.207 | -0.155 | -0.194 | -0.145 | -0.179 | -0.255 | -0.288 | -0.193 | -0.155 | -0.235 | 0.374 | 0.478 |
| 24. Cogn_R1 | 0.139 | 0.274 | 0.112 | -0.36 | -0.169 | -0.211 | -0.219 | -0.13 | -0.196 | -0.177 | -0.198 | -0.179 | -0.17 | -0.113 | 0.428 | 0.421 |
| 25. Cogn_R2 | 0.117 | 0.345 | 0.161 | -0.359 | -0.172 | -0.221 | -0.275 | -0.193 | -0.254 | -0.174 | -0.227 | -0.181 | -0.07 | -0.163 | 0.465 | 0.444 |
| 26. Cogn_R3 | 0.071 | 0.259 | 0.144 | -0.429 | -0.249 | -0.265 | -0.319 | -0.208 | -0.271 | -0.221 | -0.217 | -0.212 | -0.211 | -0.113 | 0.452 | 0.476 |
| 27. Cogn_P1 | 0.039 | 0.048 | 0.054 | -0.105 | -0.138 | -0.024 | -0.053 | -0.085 | -0.022 | -0.046 | -0.127 | -0.029 | -0.273 | -0.02 | 0.103 | 0.202 |
| 28. Cogn P2 | 0.114 | 0.14 | 0.124 | -0.048 | -0.12 | -0.067 | -0.11 | -0.087 | -0.07 | -0.103 | -0.143 | -0.124 | -0.281 | 0.006 | 0.184 | 0.191 |
| 29. Cogn P3 | 0.161 | 0.158 | 0.11 | -0.07 | -0.149 | -0.032 | -0.068 | -0.046 | -0.041 | -0.11 | -0.167 | -0.142 | -0.267 | -0.096 | 0.146 | 0.256 |
| 30. Mathematics | 0.125 | 0.29 | 0.21 | -0.201 | -0.114 | -0.082 | -0.079 | -0.169 | -0.039 | -0.121 | -0.204 | -0.063 | -0.166 | -0.242 | 0.345 | 0.358 |
| 31. Language | 0.054 | 0.301 | 0.273 | -0.272 | -0.142 | -0.169 | -0.147 | -0.223 | -0.092 | -0.152 | -0.206 | -0.123 | -0.085 | -0.207 | 0.371 | 0.394 |
| 32. Science | 0.128 | 0.347 | 0.254 | -0.255 | -0.179 | -0.189 | -0.159 | -0.238 | -0.069 | -0.157 | -0.279 | -0.13 | -0.158 | -0.232 | 0.407 | 0.391 |
| Mean | 4.7059 | 4.2484 | 4.6797 | 1.4689 | 1.4921 | 1.3519 | 1.3339 | 1.262 | 1.325 | 0.7908 | 0.5033 | 1.6209 | 0.9739 | 0.8301 | 0.7961 | 1.1423 |
| S.D. | 2.0707 | 0.9409 | 0.7579 | 0.4083 | 0.3722 | 0.3702 | 0.3147 | 0.3427 | 0.3194 | 1.37 | 1.0268 | 1.5936 | 1.3126 | 1.1964 | 0.3377 | 0.4808 |

Note: WM=Working memory; Vis=Visual; Num=Numerical; Verb=Verbal; Com=Compatible; Inc=Incompatible; DCCS=Dimensional change card sorting; lang= Language; Reason=Reasoning; R=Rule-based reasoning; P=Principle-based reasoning; Cogn=Cognizance.

| | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
|-----------------|-------|--------|--------|--------|---------|--------|---------|--------|---------|---------|---------|---------|--------|--------|---------|---------|
| 17. Oral lang | 1 | | | | | | | | | | | | | | | |
| 18. Reason R1 | 0.582 | 1 | | | | | | | | | | | | | | |
| 19. Reason R2 | 0.641 | 0.608 | 1 | | | | | | | | | | | | | |
| 20. Reason R3 | 0.579 | 0.578 | 0.652 | 1 | | | | | | | | | | | | |
| 21. Reason P1 | 0.508 | 0.499 | 0.566 | 0.705 | 1 | | | | | | | | | | | |
| 22. Reason P2 | 0.482 | 0.487 | 0.476 | 0.592 | 0.632 | 1 | | | | | | | | | | |
| 23. Reason P3 | 0.39 | 0.393 | 0.683 | 0.455 | 0.362 | 0.278 | 1 | | | | | | | | | |
| 24. Cogn_R1 | 0.391 | 0.653 | 0.39 | 0.434 | 0.335 | 0.42 | 0.282 | 1 | | | | | | | | |
| 25. Cogn_R2 | 0.466 | 0.385 | 0.655 | 0.457 | 0.385 | 0.348 | 0.474 | 0.65 | 1 | | | | | | | |
| 26. Cogn_R3 | 0.444 | 0.387 | 0.396 | 0.696 | 0.487 | 0.454 | 0.29 | 0.679 | 0.698 | 1 | | | | | | |
| 27. Cogn_P1 | 0.153 | 0.15 | 0.116 | 0.192 | 0.358 | 0.164 | 0.023 | 0.104 | 0.074 | 0.193 | 1 | | | | | |
| 28. Cogn P2 | 0.189 | 0.164 | 0.169 | 0.167 | 0.189 | 0.387 | 0.017 | 0.139 | 0.088 | 0.147 | 0.66 | 1 | | | | |
| 29. Cogn P3 | 0.212 | 0.157 | 0.333 | 0.169 | 0.074 | 0.019 | 0.415 | 0.103 | 0.19 | 0.129 | 0.574 | 0.58 | 1 | | | |
| 30. Mathematics | 0.445 | 0.205 | 0.221 | 0.253 | 0.245 | 0.156 | 0.146 | 0.141 | 0.128 | 0.143 | 0.022 | -0.08 | -0.042 | 1 | | |
| 31. Language | 0.499 | 0.203 | 0.272 | 0.265 | 0.269 | 0.156 | 0.133 | 0.159 | 0.209 | 0.195 | 0.057 | -0.084 | -0.013 | 0.808 | 1 | |
| 32. Science | 0.493 | 0.214 | 0.322 | 0.309 | 0.338 | 0.203 | 0.178 | 0.12 | 0.216 | 0.165 | 0.099 | -0.019 | -0.009 | 0.83 | 0.826 | 1 |
| Mean | 0.637 | 0.0454 | -0.037 | 0.0357 | -0.0017 | 0.0362 | -0.0014 | 0.0044 | -0.0484 | -0.0102 | -0.0139 | -0.0297 | -0.049 | -0.049 | -0.0427 | -0.0065 |
| S.D. | 0.161 | 0.9541 | 0.9925 | 0.9954 | 1.0058 | 1.005 | 0.9494 | 0.6127 | 0.6046 | 0.6429 | 0.7756 | 0.8535 | 0.842 | 1.012 | 1.0117 | 1.0022 |

Model fit: Sattora-Bentler Scaled Chi-square = .1650, Df = 446, p =1.00, CFI=1.00, RMASE =.00 (CI=.00-.07).

Cronbach's alpha (for the variables included in the model) = .59

Reliability coefficient Rho = .83

STANDARDIZED SOLUTION (Symbols as in Fig. 2).

| | | | | R-SQUARED |
|----------|-------|--------------|---------------------------------|-----------|
| : | | | | |
| WM_VI | =V7 | = .410*F3 | + .912 E7 | .168 |
| WM_NU | =V8 | = .784*F3 | + .620 E8 | .615 |
| WM_VE | =V9 | = .698 F3 | + .716 E9 | .487 |
| ST_VI_C | =V10 | = .838*F1 | + .545 E10 | .702 |
| ST_VI_IN | =V11 | = .795*F2 | + .607 E11 | .632 |
| ST_Q_C | =V12 | = .850 F1 | + .527 E12 | .723 |
| ST_Q_IN | =V13 | = .873 F2 | + .487 E13 | .762 |
| ST_VE_C | =V14 | = .780*F1 | + .626 E14 | .608 |
| ST_VE_IN | =V15 | = .781*F2 | + .625 E15 | .610 |
| SHIFT_VI | =V16 | = .760 F22 | + .650 E16 | .577 |
| SHIFT_Q | =V18 | = .790*F22 | + .614 E18 | .623 |
| SHIFT_VE | =V20 | = .544*F22 | + .839 E20 | .296 |
| DCCS_MR | =V22 | = .429*F22 | + .904 E22 | .184 |
| DCCS_PR | =V23 | = .281*F22 | + .960 E23 | .079 |
| WISC_V | =V38 | = .827 F5 | + .563 E38 | .683 |
| WRIT_L | =V39 | = .869*F5 | + .495 E39 | .755 |
| ORAL_L | =V40 | = .862*F5 | + .507 E40 | .743 |
| GF_R1 | =V131 | = .722*F41 | + .691 E131 | .522 |
| GF_R2 | =V132 | = .801 F41 | + .599 E132 | .641 |
| GF_R3 | =V133 | = .846*F41 | + .533 E133 | .716 |
| GF_P1 | =V134 | = .776*F42 | + .630 E134 | .603 |
| GF_P2 | =V135 | = .692 F42 | + .722 E135 | .479 |
| GF_P3 | =V136 | = .563*F42 | + .826 E136 | .317 |
| Cogn_R1 | =V173 | = .786 F61 | + .618 E173 | .618 |
| Cogn_R2 | =V174 | = .818*F61 | + .575 E174 | .670 |
| Cogn_R3 | =V175 | = .861*F61 | + .509 E175 | .741 |
| Cogn_P1 | =V176 | = .802 F62 | + .597 E176 | .644 |
| Cogn_P2 | =V177 | = .818*F62 | + .575 E177 | .669 |
| Cogn_P3 | =V178 | = .716*F62 | + .699 E178 | .512 |
| MATHS | =V237 | = .900 F100 | + .436 E237 | .810 |
| LANG | =V238 | = .898*F100 | + .439 E238 | .807 |
| SCIENCE | =V239 | = .922*F100 | + .387 E239 | .850 |
| SPEED | =F1 | = 1.000*F10 | + .000 D1 | 1.000 |
| CONTROL | =F2 | = 1.000*F10 | + .000 D2 | 1.000 |
| WM | =F3 | = -.405*F10 | + .914 D3 | .164 |
| VERB_IQ | =F5 | = .910 F200 | + .414 D5 | .828 |
| EFF | =F10 | = -.626*F200 | + .780 D10 | .392 |
| GF | =F20 | = .990*F200 | + .140 D20 | .980 |
| FLEX | =F22 | = .349 F10 | + .937 D22 | .122 |
| COGN | =F30 | = 1.000*F200 | + .000 D30 | 1.000 |
| GF1 | =F41 | = 1.000*F20 | + .000 D41 | 1.000 |
| GF2 | =F42 | = .982*F20 | + .187 D42 | .965 |
| Cogn_R | =F61 | = .722 F30 | + .692 D61 | .521 |
| Cogn_P | =F62 | = .310*F30 | + .951 D62 | .096 |
| GAP | =F100 | = .291*F200 | + .657*D5 + .013*D10 + .522*D20 | |
| | | + .000*D30 | + .459 D100 | .789 |

STUDY 3

Table 3. Correlation matrix of all variables used in Study 3 (N=408).

| Variables | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1. Algebra L1 | 1 | | | | | | | | | | | | | | | |
| 2. Algebra L3 | 0.362 | 1 | | | | | | | | | | | | | | |
| 3. Math Anal L1 | 0.258 | 0.363 | 1 | | | | | | | | | | | | | |
| 4. Math Anal L3 | 0.07 | 0.22 | 0.217 | 1 | | | | | | | | | | | | |
| 5. Experim L1 | 0.01 | 0.089 | 0.013 | 0.074 | 1 | | | | | | | | | | | |
| 6. Experim L2A | 0.26 | 0.351 | 0.352 | 0.221 | 0.094 | 1 | | | | | | | | | | |
| 7. Experim L2B | 0.289 | 0.377 | 0.309 | 0.186 | 0.056 | 0.338 | 1 | | | | | | | | | |
| 8. Experim L2C | 0.174 | 0.346 | 0.276 | 0.22 | 0.109 | 0.314 | 0.364 | 1 | | | | | | | | |
| 9. Experim L3 | 0.188 | 0.35 | 0.232 | 0.213 | 0.021 | 0.289 | 0.243 | 0.32 | 1 | | | | | | | |
| 10. Social L1A | 0.182 | 0.234 | 0.201 | 0.158 | 0.003 | 0.199 | 0.297 | 0.177 | 0.165 | 1 | | | | | | |
| 11. Social L1B | 0.167 | 0.175 | 0.246 | 0.165 | -0.035 | 0.218 | 0.261 | 0.24 | 0.116 | 0.282 | 1 | | | | | |
| 12. Social L2A | 0.044 | 0.096 | 0.172 | -0.005 | -0.04 | 0.086 | 0.076 | 0.044 | 0.015 | 0.036 | 0.091 | 1 | | | | |
| 13. Social L3A | 0.167 | 0.214 | 0.195 | 0.045 | 0.098 | 0.158 | 0.096 | 0.079 | 0.206 | 0.069 | 0.109 | 0.127 | 1 | | | |
| 14. Rotation 1 | 0.03 | 0.132 | 0.186 | 0.075 | 0.043 | 0.128 | 0.124 | 0.021 | 0.069 | 0.029 | 0.055 | 0.157 | 0.129 | 1 | | |
| 15. Rotation 2 | 0.04 | 0.114 | 0.127 | 0.08 | -0.041 | 0.088 | 0.059 | 0.171 | 0.264 | -0.044 | 0.019 | 0.084 | 0.131 | 0.013 | 1 | |
| 16. SC Speed | -0.057 | -0.022 | 0.018 | 0.028 | -0.033 | 0.056 | -0.029 | 0.045 | 0.061 | 0.006 | 0.015 | 0.06 | -0.012 | -0.038 | 0.052 | 1 |
| 17. SC Logic | 0.036 | 0.149 | 0.146 | 0.074 | 0.033 | 0.116 | 0.167 | 0.093 | 0.104 | 0.2 | 0.123 | 0.136 | 0.093 | 0.097 | -0.02 | 0.387 |
| 18. Greek | 0.236 | 0.357 | 0.331 | 0.298 | 0.064 | 0.329 | 0.336 | 0.327 | 0.315 | 0.316 | 0.247 | 0.145 | 0.175 | 0.167 | 0.006 | 0.033 |
| 19. Science | 0.238 | 0.325 | 0.286 | 0.218 | 0.056 | 0.317 | 0.213 | 0.212 | 0.22 | 0.305 | 0.163 | 0.168 | 0.192 | 0.214 | 0.026 | 0.054 |
| 20. Mathematics | 0.2 | 0.243 | 0.249 | 0.234 | 0.08 | 0.244 | 0.192 | 0.215 | 0.245 | 0.257 | 0.175 | 0.146 | 0.12 | 0.191 | 0.036 | -0.012 |
| 21. SE QUA_Pre | 0.297 | 0.391 | 0.345 | 0.278 | 0.079 | 0.341 | 0.34 | 0.256 | 0.242 | 0.207 | 0.2 | 0.081 | 0.13 | 0.202 | 0.083 | 0.065 |
| 22. SE QUA_Post | 0.394 | 0.451 | 0.39 | 0.249 | 0.047 | 0.408 | 0.375 | 0.259 | 0.298 | 0.216 | 0.209 | 0.08 | 0.145 | 0.155 | 0.14 | 0.161 |
| 23. SE EXP_Pre | 0.056 | 0.174 | 0.148 | 0.15 | 0.012 | 0.153 | 0.132 | 0.177 | 0.162 | 0.148 | 0.136 | 0.033 | 0.076 | 0.172 | 0.098 | 0.11 |
| 24. SE EXP_Post | 0.098 | 0.171 | 0.067 | 0.103 | 0.038 | 0.109 | 0.147 | 0.138 | 0.236 | 0.004 | 0.034 | -0.003 | -0.011 | 0.11 | 0.122 | 0.231 |
| 25. SE SOC_Pre | 0.132 | 0.135 | 0.091 | 0.158 | 0.008 | 0.235 | 0.214 | 0.138 | 0.132 | 0.156 | 0.118 | -0.095 | 0.13 | -0.044 | 0.044 | 0.144 |
| 26. SE SOC_Post | -0.005 | 0.117 | 0.06 | 0.059 | -0.001 | 0.093 | 0.029 | 0.03 | 0.082 | -0.021 | 0.04 | 0.127 | 0.225 | 0.046 | 0.089 | 0.24 |
| 27. SE ROT_Pre | 0.053 | 0.151 | 0.189 | 0.121 | 0.044 | 0.118 | 0.114 | 0.106 | 0.176 | 0.147 | 0.186 | 0.01 | 0.045 | 0.08 | 0.073 | 0.172 |
| 28. SE ROT_Post | 0.063 | 0.091 | 0.072 | 0.036 | 0.015 | 0.037 | 0.011 | 0.016 | 0.098 | -0.011 | -0.005 | -0.056 | 0.03 | 0.213 | -0.012 | 0.205 |
| 29. SC Maths | -0.114 | -0.005 | -0.009 | 0.134 | 0.033 | -0.056 | -0.062 | 0.053 | -0.011 | 0.067 | 0.018 | 0.098 | 0.009 | 0.163 | -0.01 | 0.351 |
| 30. SC Science | -0.008 | 0.151 | 0.042 | 0.034 | -0.039 | 0.083 | 0.04 | 0.108 | 0.072 | 0.034 | 0.082 | 0.052 | -0.001 | 0.097 | 0.101 | 0.379 |
| 31. SC Social | 0.042 | 0.158 | 0.143 | 0.006 | 0.002 | 0.111 | 0.127 | 0.171 | 0.122 | 0.136 | 0.199 | 0.022 | 0.066 | 0.05 | 0.086 | 0.307 |
| 32. SC Spatial | 0.009 | 0.107 | 0.01 | -0.022 | -0.044 | 0.067 | 0.085 | 0.033 | 0.004 | 0.019 | 0.048 | 0.018 | 0.067 | 0.108 | -0.022 | 0.317 |
| Mean | 0.7601 | 0.3925 | 0.514 | 0.5701 | 0.0156 | 0.5234 | 0.7445 | 0.215 | 0.271 | 0.5857 | 0.1246 | 0.7477 | 0.8224 | 1.7477 | 0.1745 | 5.3352 |
| S.D. | 0.4277 | 0.4891 | 0.725 | 0.6141 | 0.1471 | 0.7666 | 0.8679 | 0.5705 | 0.6553 | 0.607 | 0.3751 | 0.9195 | 0.8457 | 0.6189 | 0.448 | 1.0733 |

| Variables | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
|-----------------|--------|--------|---------|---------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 17. SC Logic | 1 | | | | | | | | | | | | | | | |
| 18. Greek | 0.277 | 1 | | | | | | | | | | | | | | |
| 19. Science | 0.222 | 0.807 | 1 | | | | | | | | | | | | | |
| 20. Mathematics | 0.232 | 0.79 | 0.774 | 1 | | | | | | | | | | | | |
| 21. SE QUA Pre | 0.144 | 0.238 | 0.191 | 0.232 | 1 | | | | | | | | | | | |
| 22. SE QUA Post | 0.216 | 0.3 | 0.263 | 0.214 | 0.619 | 1 | | | | | | | | | | |
| 23. SE EXP Pre | 0.23 | 0.188 | 0.158 | 0.195 | 0.525 | 0.316 | 1 | | | | | | | | | |
| 24. SE EXP Post | 0.087 | -0.021 | -0.026 | -0.043 | 0.336 | 0.49 | 0.274 | 1 | | | | | | | | |
| 25. SE SOC Pre | 0.287 | 0.231 | 0.185 | 0.149 | 0.239 | 0.169 | 0.308 | 0.106 | 1 | | | | | | | |
| 26. SE SOC Post | 0.176 | 0.061 | 0.044 | 0.011 | 0.182 | 0.388 | 0.153 | 0.51 | 0.164 | 1 | | | | | | |
| 27. SE ROT Pre | 0.113 | 0.145 | 0.116 | 0.136 | 0.307 | 0.292 | 0.303 | 0.248 | 0.154 | 0.211 | 1 | | | | | |
| 28. SE ROT Post | 0.099 | -0.037 | -0.045 | -0.012 | 0.31 | 0.334 | 0.311 | 0.418 | 0.077 | 0.32 | 0.265 | 1 | | | | |
| 29. SC Maths | 0.342 | 0.123 | 0.157 | 0.223 | 0.243 | 0.146 | 0.306 | 0.157 | 0.115 | 0.113 | 0.212 | 0.154 | 1 | | | |
| 30. SC Science | 0.498 | 0.127 | 0.142 | 0.096 | 0.114 | 0.14 | 0.245 | 0.131 | 0.188 | 0.1 | 0.104 | 0.171 | 0.392 | 1 | | |
| 31. SC Social | 0.385 | 0.105 | 0.06 | 0.043 | 0.264 | 0.202 | 0.265 | 0.15 | 0.222 | 0.103 | 0.204 | 0.079 | 0.264 | 0.539 | 1 | |
| 32. SC Spatial | 0.385 | 0.104 | 0.05 | 0.045 | 0.184 | 0.21 | 0.253 | 0.21 | 0.205 | 0.21 | 0.267 | 0.153 | 0.329 | 0.427 | 0.519 | 1 |
| Mean | 5.6521 | 0.0117 | -0.0146 | -0.0275 | 4.4283 | 4.7741 | 4.215 | 3.8925 | 5.4875 | 5.3115 | 5.2305 | 5.7321 | 4.4827 | 5.1667 | 4.9174 | 5.1231 |
| S.D. | 1.3223 | 1.0004 | 0.9951 | 0.9956 | 1.5149 | 1.638 | 1.704 | 1.6864 | 1.4442 | 1.4549 | 1.6288 | 1.2061 | 1.3567 | 1.018 | 1.0985 | 1.1351 |

Note: L=difficulty level; Math anal=mathematical analogies; Experim=experimental reasoning (isolation of variables); SC=self-concept; SE=self-evaluation; QUA=quantitative; EXP= experimental; SOC=social; ROT=rotation; Pre=pre-performance evaluation; Post=post-performance evaluation.

R-SQUARED

Cronbach's alpha (for the variables included in the model) = .84

Reliability coefficient $Rho = .88$

| | | | | | | |
|----------------|--------|----------------------|------------|------------|--|-------|
| AALG1 | =V7 = | .456 F51 + .890 E7 | | | | .208 |
| AALG3 | =V8 = | .651*F51 + .759 E8 | | | | .424 |
| APROD1 | =V9 = | .570*F51 + .821 E9 | | | | .325 |
| APROD2 | =V10 = | .383*F51 + .924 E10 | | | | .147 |
| AEXP1 | =V11 = | .108 F52 + .994 E11 | | | | .012 |
| AEXP2A | =V12 = | .598*F52 + .801 E12 | | | | .358 |
| AEXP2B | =V13 = | .588*F52 + .809 E13 | | | | .346 |
| AEXP2C | =V14 = | .543*F52 + .840 E14 | | | | .295 |
| AEXP3 | =V15 = | .503*F52 + .865 E15 | | | | .253 |
| ASOC1A | =V16 = | .471 F53 + .882 E16 | | | | .222 |
| ASOC1C | =V18 = | .461*F53 + .887 E18 | | | | .213 |
| ASOC2A | =V20 = | .191*F53 + .982 E20 | | | | .036 |
| ASOC3A | =V22 = | .306*F53 + .952 E22 | | | | .094 |
| AROT1 | =V24 = | .239 F54 + .971 E24 | | | | .057 |
| AROT2 | =V25 = | .177*F54 + .984 E25 | | | | .031 |
| SC_MEFF | =V52 = | .449 F22 + .894 E52 | | | | .201 |
| SC_LOG | =V53 = | .862*F22 + .506 E53 | | | | .744 |
| GR | =V90 = | .925 F4 + .381 E90 | | | | .855 |
| PHYS | =V91 = | .881*F4 + .473 E91 | | | | .776 |
| MATHS | =V92 = | .860*F4 + .510 E92 | | | | .740 |
| SE_QUA_P=V142= | | .835 F31 + .550 E142 | | | | .697 |
| SE_QUA_M=V143= | | .887 F32 + .462 E143 | | | | .786 |
| SE_EXP_P=V146= | | .608*F31 + .794 E146 | | | | .370 |
| SE_EXP_M=V147= | | .559*F32 + .829 E147 | | | | .312 |
| SE_SOC_P=V150= | | .344*F31 + .939 E150 | | | | .119 |
| SE_SOC_M=V151= | | .423*F32 + .906 E151 | | | | .179 |
| SE_ROT_P=V154= | | .417*F31 + .909 E154 | | | | .174 |
| SE_ROT_M=V155= | | .423*F32 + .906 E155 | | | | .179 |
| SC_MATH | =V167= | .458 F2 + .889 E167 | | | | .209 |
| SC_EXP_N=V168= | | .694*F2 + .720 E168 | | | | .481 |
| SC_SOC | =V169= | .758*F2 + .652 E169 | | | | .574 |
| SC_SPAT | =V170= | .664*F2 + .748 E170 | | | | .441 |
| GF_SR | =F2 = | .454*F10 + .891 D2 | | | | .206 |
| GAP | =F4 = | .221*F10 + .016*D2 | + .564 D4 | + .274*D22 | | |
| F22 | =F22 = | .306*D31 + .140*D32 | + .667*D50 | | | .682 |
| F22 | =F22 = | .393*F10 + .920 D22 | | | | .154 |
| SE_PRE | =F31 = | .893*F10 + .450 D31 | | | | .797 |
| SE_POST | =F32 = | .866*F10 + .500 D32 | | | | .750 |
| GF | =F50 = | .752 F10 + .659 D50 | | | | .566 |
| QUANT | =F51 = | 1.000 F50 + .000 D51 | | | | 1.000 |
| EXPER | =F52 = | .932*F50 + .362 D52 | | | | .869 |
| SOCIAL | =F53 = | .831*F50 + .556 D53 | | | | .691 |
| ROTAT | =F54 = | 1.000*F50 + .000 D54 | | | | 1.000 |

STUDY 4

Table 4. Correlation matrix of all variables used in Study 4 (N=689).

| Variables | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|-----------------------|-------|--------|-------|-------|--------|--------|--------|--------|-------|--------|--------|--------|-------|--------|--------|--------|
| 1. Letter rot | 1 | | | | | | | | | | | | | | | |
| 2. Folded paper | 0.228 | 1 | | | | | | | | | | | | | | |
| 3. Clock rot | 0.225 | 0.287 | 1 | | | | | | | | | | | | | |
| 4. Exper 1 | 0.128 | 0.277 | 0.2 | 1 | | | | | | | | | | | | |
| 5. Exper 2 | 0.253 | 0.261 | 0.214 | 0.222 | 1 | | | | | | | | | | | |
| 6. Exper 3 | 0.163 | 0.211 | 0.164 | 0.237 | 0.259 | 1 | | | | | | | | | | |
| 7. Raven-like | 0.299 | 0.254 | 0.252 | 0.225 | 0.292 | 0.217 | 1 | | | | | | | | | |
| 8. Verbal anal | 0.12 | 0.264 | 0.233 | 0.239 | 0.366 | 0.252 | 0.402 | 1 | | | | | | | | |
| 9. Categor Reas | 0.063 | 0.12 | 0.117 | 0.148 | 0.155 | 0.041 | 0.158 | 0.114 | 1 | | | | | | | |
| 10. Syllog Reas 1 | 0.144 | 0.296 | 0.201 | 0.207 | 0.296 | 0.206 | 0.252 | 0.329 | 0.152 | 1 | | | | | | |
| 11. Syllog Reas 2 | 0.188 | 0.234 | 0.274 | 0.236 | 0.269 | 0.275 | 0.294 | 0.297 | 0.141 | 0.366 | 1 | | | | | |
| 12. Algebra | 0.253 | 0.288 | 0.26 | 0.297 | 0.347 | 0.327 | 0.345 | 0.32 | 0.219 | 0.324 | 0.357 | 1 | | | | |
| 13. Arith operations | 0.222 | 0.248 | 0.253 | 0.245 | 0.254 | 0.175 | 0.282 | 0.261 | 0.194 | 0.272 | 0.303 | 0.424 | 1 | | | |
| 14. Num analogies | 0.15 | 0.292 | 0.262 | 0.29 | 0.207 | 0.218 | 0.311 | 0.352 | 0.2 | 0.293 | 0.326 | 0.472 | 0.404 | 1 | | |
| 15. Maths Conc Und | 0.17 | 0.192 | 0.237 | 0.296 | 0.262 | 0.203 | 0.248 | 0.257 | 0.195 | 0.27 | 0.268 | 0.339 | 0.307 | 0.301 | 1 | |
| 16. Maths learn speed | 0.151 | 0.163 | 0.209 | 0.3 | 0.216 | 0.174 | 0.215 | 0.225 | 0.171 | 0.243 | 0.236 | 0.302 | 0.285 | 0.275 | 0.947 | 1 |
| 17. Maths using conc | 0.165 | 0.183 | 0.241 | 0.277 | 0.223 | 0.168 | 0.223 | 0.23 | 0.174 | 0.257 | 0.26 | 0.334 | 0.323 | 0.299 | 0.912 | 0.917 |
| 18. Maths perform | 0.165 | 0.167 | 0.228 | 0.26 | 0.216 | 0.175 | 0.251 | 0.247 | 0.174 | 0.265 | 0.294 | 0.348 | 0.351 | 0.307 | 0.897 | 0.914 |
| 19. Sci Conc Und | 0.186 | 0.252 | 0.197 | 0.274 | 0.239 | 0.239 | 0.259 | 0.309 | 0.227 | 0.329 | 0.323 | 0.394 | 0.306 | 0.338 | 0.694 | 0.714 |
| 20. Sci learn speed | 0.19 | 0.251 | 0.174 | 0.274 | 0.24 | 0.245 | 0.23 | 0.279 | 0.21 | 0.317 | 0.303 | 0.371 | 0.296 | 0.34 | 0.696 | 0.741 |
| 21. Sci using conc | 0.17 | 0.233 | 0.176 | 0.263 | 0.235 | 0.241 | 0.241 | 0.304 | 0.204 | 0.306 | 0.335 | 0.385 | 0.292 | 0.332 | 0.676 | 0.701 |
| 22. Efficiency | 0.172 | 0.213 | 0.154 | 0.218 | 0.208 | 0.213 | 0.213 | 0.266 | 0.147 | 0.295 | 0.31 | 0.371 | 0.29 | 0.282 | 0.641 | 0.675 |
| 23. Sci perform | 0.181 | 0.247 | 0.18 | 0.274 | 0.241 | 0.244 | 0.254 | 0.288 | 0.209 | 0.317 | 0.322 | 0.397 | 0.311 | 0.337 | 0.677 | 0.708 |
| 24. Greek Conc | 0.221 | 0.228 | 0.229 | 0.301 | 0.25 | 0.227 | 0.292 | 0.323 | 0.284 | 0.312 | 0.326 | 0.423 | 0.377 | 0.343 | 0.612 | 0.595 |
| 25. Greek learn speed | 0.227 | 0.229 | 0.219 | 0.32 | 0.256 | 0.254 | 0.279 | 0.313 | 0.234 | 0.308 | 0.322 | 0.42 | 0.358 | 0.346 | 0.608 | 0.594 |
| 26. Greek perform | 0.183 | 0.206 | 0.142 | 0.281 | 0.227 | 0.235 | 0.26 | 0.301 | 0.255 | 0.312 | 0.296 | 0.377 | 0.351 | 0.301 | 0.664 | 0.646 |
| 27. A Help 1 | 0.049 | -0.049 | 0.022 | 0.005 | -0.003 | -0.03 | -0.029 | 0.003 | 0.016 | -0.01 | -0.034 | -0.043 | 0.104 | -0.085 | -0.072 | -0.071 |
| 28. A Help 2 | 0.025 | -0.004 | 0.026 | 0.018 | -0.006 | -0.055 | 0.002 | -0.068 | 0.029 | -0.049 | -0.042 | -0.004 | 0.025 | -0.122 | -0.133 | -0.113 |
| 29. A Social 1 | 0.059 | 0.059 | 0.031 | 0.037 | -0.064 | 0.014 | -0.026 | -0.008 | 0.055 | -0.055 | -0.008 | 0.03 | 0.033 | -0.019 | -0.067 | -0.074 |

| | | | | | | | | | | | | | | | | |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 30. A Social 2 | 0.075 | -0.001 | 0.058 | 0.009 | -0.033 | -0.042 | -0.025 | -0.038 | 0.004 | -0.061 | -0.095 | -0.039 | 0.087 | -0.046 | 0.033 | 0.025 |
| 31. N ego | -0.036 | -0.031 | 0.011 | -0.024 | 0.027 | -0.077 | 0.014 | -0.038 | -0.04 | -0.013 | -0.022 | 0.005 | 0.002 | -0.032 | -0.047 | -0.06 |
| 32. N emo 1 | -0.073 | -0.064 | -0.07 | 0.056 | 0.05 | -0.068 | 0.011 | -0.074 | 0.036 | -0.006 | -0.031 | 0.04 | 0.078 | 0.048 | -0.04 | -0.042 |
| 33. N emo 2 | -0.065 | -0.005 | 0.001 | -0.046 | -0.065 | -0.022 | -0.072 | -0.093 | -0.022 | -0.009 | -0.038 | 0.022 | 0.009 | -0.011 | -0.078 | -0.09 |
| 34. N emo 3 | -0.079 | -0.099 | -0.036 | 0.006 | -0.011 | -0.003 | -0.112 | -0.029 | -0.074 | -0.082 | -0.034 | -0.035 | -0.052 | 0.015 | -0.099 | -0.083 |
| 35. E 1 | -0.097 | -0.084 | -0.03 | -0.014 | -0.045 | -0.067 | -0.107 | -0.007 | -0.022 | -0.062 | -0.088 | -0.009 | 0.027 | 0.018 | -0.129 | -0.127 |
| 36. E 2 | -0.006 | -0.094 | -0.012 | -0.033 | -0.104 | -0.065 | -0.016 | -0.067 | -0.038 | -0.066 | -0.063 | -0.055 | 0.072 | -0.038 | -0.074 | -0.077 |
| 37. E 3 | -0.026 | -0.061 | -0.026 | 0.083 | -0.038 | 0.014 | 0.046 | -0.036 | 0.058 | 0.005 | 0.023 | 0.054 | 0.107 | 0.101 | -0.006 | 0.006 |
| 38. E 4 | -0.143 | -0.043 | -0.089 | -0.092 | -0.046 | -0.06 | -0.147 | -0.09 | -0.004 | -0.124 | -0.15 | -0.012 | -0.11 | -0.111 | -0.136 | -0.128 |
| 39. O 1 | 0.037 | 0.089 | 0.07 | 0.073 | 0.029 | 0.082 | 0.029 | 0.106 | 0.088 | 0.06 | -0.003 | 0.075 | 0.081 | 0.099 | 0.096 | 0.08 |
| 40. I 1 | 0.029 | 0.052 | 0.158 | 0.107 | 0.123 | 0.061 | 0.044 | 0.14 | 0.07 | 0.106 | 0.088 | 0.186 | 0.203 | 0.132 | 0.127 | 0.109 |
| 41. I 2 | -0.019 | 0.101 | 0.112 | 0.065 | 0.078 | -0.007 | -0.025 | 0.113 | 0.114 | 0.032 | 0.086 | 0.097 | 0.124 | 0.184 | 0.13 | 0.109 |
| 42. O 2 | 0.013 | 0.059 | 0.044 | 0.022 | 0.047 | 0.037 | 0.007 | -0.003 | 0.075 | -0.035 | -0.03 | 0.162 | 0.134 | 0.043 | 0.048 | 0.056 |
| 43. C org 1 | -0.082 | -0.102 | -0.046 | -0.06 | -0.059 | -0.014 | -0.047 | -0.031 | -0.01 | -0.085 | -0.064 | -0.029 | -0.031 | -0.021 | 0.024 | 0.027 |
| 44. C Achie 1 | -0.082 | -0.051 | 0.04 | 0.039 | -0.038 | -0.034 | -0.023 | -0.011 | 0.015 | -0.045 | -0.024 | 0.009 | 0.051 | 0.028 | 0.153 | 0.166 |
| 45. C org 2 | -0.02 | -0.064 | 0.082 | -0.024 | -0.014 | -0.076 | -0.007 | -0.077 | 0.068 | -0.062 | -0.019 | -0.034 | 0.054 | -0.023 | 0.015 | 0.013 |
| 46. C org 3 | 0.034 | -0.093 | 0.075 | 0.033 | -0.062 | 0 | 0.022 | 0.02 | 0.011 | -0.043 | 0.002 | 0.008 | 0.074 | 0.027 | 0.128 | 0.119 |
| 47. SC quant 1 | 0.144 | 0.291 | 0.256 | 0.248 | 0.201 | 0.22 | 0.237 | 0.236 | 0.119 | 0.205 | 0.218 | 0.33 | 0.276 | 0.329 | 0.435 | 0.38 |
| 48. SC quant 2 | 0.157 | 0.223 | 0.178 | 0.206 | 0.241 | 0.189 | 0.181 | 0.209 | 0.122 | 0.139 | 0.18 | 0.29 | 0.262 | 0.243 | 0.375 | 0.356 |
| 49. SC quant 3 | 0.054 | 0.227 | 0.23 | 0.132 | 0.231 | 0.184 | 0.211 | 0.186 | 0.121 | 0.194 | 0.183 | 0.257 | 0.173 | 0.249 | 0.393 | 0.36 |
| 50. SC quant 3 | 0.009 | 0.054 | 0.097 | 0.038 | -0.017 | 0.03 | 0.014 | 0.039 | 0.056 | 0.133 | 0.092 | 0.096 | 0.121 | 0.1 | 0.014 | 0.029 |
| 51. SC Sci 1 | 0.098 | 0.122 | 0.118 | 0.09 | 0.045 | 0.044 | 0.14 | 0.086 | 0.114 | 0.121 | 0.054 | 0.217 | 0.217 | 0.125 | 0.101 | 0.068 |
| 52. SC Sci 2 | 0.006 | 0.127 | 0.159 | 0.014 | 0.068 | 0.021 | 0.037 | 0.089 | 0.123 | 0.048 | 0.064 | 0.07 | 0.197 | 0.118 | 0.057 | 0.054 |
| 53. SC STM N1 | -0.021 | -0.041 | 0.035 | 0.03 | 0.019 | 0.039 | 0.016 | 0.05 | 0.082 | 0.007 | -0.033 | 0.015 | 0.082 | 0.064 | -0.019 | -0.01 |
| 54. SC STM N2 | 0.047 | 0.016 | 0.008 | 0.097 | 0.058 | 0.01 | 0.004 | 0.023 | 0.017 | -0.099 | 0.016 | 0.004 | 0.068 | 0.036 | -0.049 | -0.068 |
| 55. SC Spatial 1 vis | -0.038 | -0.064 | 0.054 | 0.001 | 0.035 | -0.02 | 0.036 | 0.041 | 0.023 | -0.052 | 0.001 | -0.043 | -0.009 | -0.022 | -0.027 | -0.01 |
| 56. SC Self-mon G | 0.033 | 0.117 | 0.06 | 0.096 | 0.048 | 0.045 | 0.003 | 0.071 | 0.063 | 0.05 | 0.05 | 0.135 | 0.095 | 0.166 | 0.011 | 0.025 |
| 57. SC Self-mon B | 0.042 | 0.118 | 0.008 | 0.109 | 0.125 | 0.123 | 0.044 | 0.178 | 0.023 | 0.096 | 0.119 | 0.201 | 0.115 | 0.123 | 0.077 | 0.066 |
| 58. SC Self-mon T | 0.006 | 0.058 | 0.087 | -0.001 | 0.075 | -0.029 | 0.054 | 0.036 | 0.016 | 0.027 | 0.043 | 0.103 | 0.125 | 0.148 | 0.008 | -0.009 |
| 59. SC Social 1 | 0.046 | -0.007 | 0.015 | -0.002 | 0.105 | 0.026 | 0.031 | 0.062 | -0.01 | 0.001 | -0.001 | 0.031 | 0.079 | 0.06 | -0.022 | -0.016 |
| 60. SC Social 2 | 0.048 | -0.008 | 0.018 | 0.045 | 0.097 | 0.039 | 0.015 | 0.069 | 0.058 | 0.056 | 0.024 | 0.103 | 0.12 | 0.103 | 0.025 | 0.031 |
| 61. SC Social 3 | -0.004 | -0.06 | 0.035 | -0.027 | 0.04 | -0.003 | -0.039 | 0.078 | 0.009 | 0.036 | 0.072 | 0.055 | 0.063 | 0.025 | -0.061 | -0.063 |
| 62. SC verbal 1 | -0.049 | -0.058 | 0.047 | 0.026 | -0.059 | -0.047 | -0.059 | -0.063 | 0.014 | 0.008 | 0.036 | -0.002 | 0.094 | 0.021 | 0.073 | 0.084 |

| | | | | | | | | | | | | | | | | |
|----------------------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|---------|--------|--------|--------|--------|
| 63. SC verbal 2 | -0.016 | -0.05 | -0.039 | 0.044 | -0.063 | -0.007 | -0.095 | -0.053 | 0.109 | -0.007 | 0.024 | 0.08 | 0.143 | 0.083 | 0.127 | 0.135 |
| 64. SC verbal 3 | -0.07 | -0.05 | -0.018 | 0.044 | -0.006 | -0.064 | -0.02 | -0.018 | 0.07 | -0.018 | -0.045 | -0.017 | 0.065 | -0.054 | 0.064 | 0.076 |
| 65. SC impuls | -0.057 | -0.07 | -0.063 | -0.008 | -0.069 | 0.039 | -0.097 | -0.064 | -0.067 | -0.013 | -0.032 | -0.089 | 0.007 | -0.03 | -0.064 | -0.046 |
| 66. SC speed | -0.036 | 0.036 | -0.083 | 0.041 | -0.017 | -0.033 | -0.101 | -0.053 | -0.079 | -0.056 | -0.037 | -0.093 | 0.044 | -0.01 | -0.048 | -0.063 |
| 67. SC impuls | -0.006 | -0.091 | -0.024 | -0.025 | 0.03 | -0.024 | -0.045 | -0.074 | -0.038 | 0.008 | -0.078 | -0.05 | -0.021 | -0.003 | -0.11 | -0.097 |
| 68. SC categ | -0.057 | 0.045 | 0.083 | 0.031 | 0.11 | 0.063 | 0.031 | 0.084 | 0.091 | 0.06 | 0.026 | 0.11 | -0.024 | 0.087 | -0.023 | -0.027 |
| 69. SC spatial 2 vis | 0.082 | -0.05 | 0.101 | 0.079 | 0.031 | 0.07 | 0.091 | 0.116 | -0.003 | 0.018 | 0.065 | 0.062 | 0.113 | 0.042 | 0.041 | 0.026 |
| 70. SC spatial 3 vis | 0.038 | 0.066 | 0.09 | 0.012 | -0.026 | -0.023 | 0.074 | 0.07 | 0.053 | 0.03 | 0.016 | 0.058 | 0.084 | 0.055 | 0.025 | 0.008 |
| 71. SC spatial 4 rot | 0.081 | 0.075 | 0.112 | 0.039 | 0.073 | 0.068 | 0.096 | 0.116 | 0.08 | 0.181 | 0.057 | 0.069 | 0.127 | 0.04 | 0.102 | 0.091 |
| 72. SC spatial 5 rot | 0.15 | 0.071 | 0.085 | 0.051 | 0.051 | 0.085 | 0.043 | 0.102 | -0.021 | 0.172 | 0.084 | 0.115 | 0.009 | 0.039 | 0.029 | 0.043 |
| 73. SC spatial 6 rot | 0.05 | 0.05 | 0.044 | -0.028 | 0.05 | -0.014 | 0.02 | 0.065 | 0.008 | -0.044 | -0.05 | 0.023 | 0.012 | 0.026 | -0.072 | -0.114 |
| Mean | -0.0456 | 0.0742 | 0.0939 | 0.008 | 0.0577 | 0.0947 | 0.0721 | 0.1165 | -0.1013 | 0.1827 | 0.1517 | -0.0955 | 0.1747 | 0.1278 | 0.0837 | 0.0399 |
| S.D. | 0.9592 | 0.9153 | 0.9802 | 0.9141 | 0.9523 | 0.8973 | 0.9742 | 0.942 | 0.9544 | 0.9 | 0.8388 | 0.9014 | 0.797 | 0.8931 | 1.0196 | 1.0099 |

| Variables | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|----|
| 1 | | | | | | | | | | | | | | | | |
| 17. Maths conc | 0.925 | 1 | | | | | | | | | | | | | | |
| 18. Maths perf | 0.724 | 0.768 | 1 | | | | | | | | | | | | | |
| 19. Sci conc | 0.732 | 0.773 | 0.955 | 1 | | | | | | | | | | | | |
| 20. Sci speed | 0.716 | 0.765 | 0.932 | 0.919 | 1 | | | | | | | | | | | |
| 21. Sci use conc | 0.68 | 0.743 | 0.88 | 0.88 | 0.881 | 1 | | | | | | | | | | |
| 22. Scin perf | 0.72 | 0.775 | 0.95 | 0.95 | 0.927 | 0.913 | 1 | | | | | | | | | |
| 23. Sci perform | 0.602 | 0.624 | 0.661 | 0.66 | 0.644 | 0.657 | 0.67 | 1 | | | | | | | | |
| 24. Greek Conc | 0.601 | 0.616 | 0.671 | 0.671 | 0.654 | 0.676 | 0.685 | 0.933 | 1 | | | | | | | |
| 25. Greek speed | 0.648 | 0.673 | 0.681 | 0.683 | 0.676 | 0.709 | 0.699 | 0.905 | 0.908 | 1 | | | | | | |
| 26. Greek perf | -0.052 | 0.004 | -0.012 | -0.01 | 0.005 | 0.022 | 0.017 | -0.013 | -0.017 | 0.013 | 1 | | | | | |
| 27. A Help 1 | -0.099 | -0.097 | -0.114 | -0.109 | -0.085 | -0.055 | -0.087 | -0.067 | -0.084 | -0.05 | 0.585 | 1 | | | | |
| 28. A Help 2 | -0.063 | -0.035 | 0.023 | 0.014 | 0.02 | 0.028 | 0.036 | 0.031 | 0.024 | 0.045 | 0.441 | 0.476 | 1 | | | |
| 29. A Soc 1 | 0.028 | 0.048 | -0.011 | -0.02 | -0.01 | 0.01 | 0.028 | -0.041 | -0.014 | -0.024 | 0.422 | 0.412 | 0.409 | 1 | | |
| 30. A Soc 2 | -0.066 | -0.08 | -0.04 | -0.05 | -0.085 | -0.063 | -0.044 | -0.054 | -0.053 | -0.06 | -0.047 | -0.069 | -0.124 | -0.093 | 1 | |
| 31. N ego | -0.088 | -0.063 | -0.057 | -0.044 | -0.073 | -0.056 | -0.052 | -0.02 | -0.036 | -0.056 | 0.026 | -0.05 | -0.086 | -0.082 | 0.598 | 1 |

| | | | | | | | | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 32. N emo 1 | -0.1 | -0.088 | -0.098 | -0.091 | -0.096 | -0.072 | -0.09 | -0.082 | -0.09 | -0.1 | 0.021 | -0.041 | -0.026 | -0.094 | 0.497 | 0.5 |
| 33. N emo 2 | -0.126 | -0.122 | -0.125 | -0.108 | -0.122 | -0.132 | -0.115 | -0.101 | -0.089 | -0.131 | 0.026 | -0.017 | -0.165 | -0.13 | 0.528 | 0.501 |
| 34. N emo 3 | -0.134 | -0.098 | -0.129 | -0.13 | -0.128 | -0.136 | -0.12 | -0.087 | -0.094 | -0.122 | 0.245 | 0.125 | 0.113 | 0.186 | 0.082 | 0.041 |
| 35. E 1 | -0.073 | -0.048 | -0.096 | -0.103 | -0.116 | -0.108 | -0.091 | -0.079 | -0.074 | -0.091 | 0.232 | 0.168 | 0.139 | 0.162 | 0.138 | 0.089 |
| 36. E 2 | 0.023 | 0.033 | 0.015 | 0.012 | 0.014 | 0.021 | 0.036 | 0.083 | 0.052 | 0.069 | 0.238 | 0.269 | 0.258 | 0.245 | 0.016 | -0.019 |
| 37. E 3 | -0.111 | -0.108 | -0.12 | -0.12 | -0.099 | -0.071 | -0.094 | -0.156 | -0.151 | -0.122 | 0.125 | 0.139 | 0.079 | 0.142 | 0.026 | 0.028 |
| 38. E 4 | 0.079 | 0.085 | 0.094 | 0.119 | 0.092 | 0.086 | 0.132 | 0.084 | 0.094 | 0.074 | 0.143 | 0.093 | 0.174 | 0.212 | 0.017 | -0.05 |
| 39. O 1 | 0.142 | 0.159 | 0.092 | 0.089 | 0.087 | 0.038 | 0.1 | 0.121 | 0.112 | 0.101 | 0.145 | 0.119 | 0.132 | 0.221 | 0.112 | 0.013 |
| 40. I 1 | 0.122 | 0.115 | 0.074 | 0.06 | 0.05 | 0.024 | 0.088 | 0.098 | 0.103 | 0.099 | 0.025 | -0.004 | 0.083 | 0.137 | 0.074 | 0.057 |
| 41. It 2 | 0.063 | 0.077 | 0.08 | 0.095 | 0.071 | 0.046 | 0.103 | 0.06 | 0.053 | 0.049 | 0.178 | 0.261 | 0.274 | 0.264 | -0.04 | -0.077 |
| 42. O 2 | 0.036 | 0.065 | 0.11 | 0.105 | 0.106 | 0.139 | 0.135 | 0.093 | 0.08 | 0.088 | 0.112 | 0.114 | 0.184 | 0.191 | -0.147 | -0.191 |
| 43. C org 1 | 0.186 | 0.226 | 0.2 | 0.194 | 0.197 | 0.237 | 0.226 | 0.16 | 0.175 | 0.195 | 0.111 | 0.103 | 0.216 | 0.28 | -0.078 | -0.139 |
| 44. C Ach 1 | 0.019 | 0.046 | 0.007 | 0.019 | 0.033 | 0.059 | 0.035 | 0.025 | 0.016 | 0.024 | 0.222 | 0.189 | 0.316 | 0.312 | -0.049 | 0.039 |
| 45. C org 2 | 0.116 | 0.166 | 0.145 | 0.142 | 0.149 | 0.136 | 0.165 | 0.16 | 0.145 | 0.199 | 0.284 | 0.241 | 0.272 | 0.334 | -0.097 | -0.115 |
| 46. C org 3 | 0.385 | 0.409 | 0.357 | 0.348 | 0.329 | 0.333 | 0.357 | 0.305 | 0.319 | 0.325 | -0.041 | -0.02 | 0.086 | 0.025 | -0.031 | -0.07 |
| 47. SC quant 1 | 0.369 | 0.388 | 0.32 | 0.328 | 0.337 | 0.351 | 0.338 | 0.253 | 0.293 | 0.283 | -0.029 | -0.06 | -0.004 | -0.027 | -0.138 | -0.137 |
| 48. SC quant 2 | 0.345 | 0.385 | 0.311 | 0.296 | 0.308 | 0.259 | 0.305 | 0.261 | 0.271 | 0.297 | 0.007 | -0.004 | 0.059 | 0.043 | -0.028 | -0.095 |
| 49. SC quant 3 | 0.018 | 0.025 | 0.055 | 0.06 | 0.077 | 0.076 | 0.066 | 0.039 | 0.034 | 0.033 | 0.13 | 0.108 | 0.133 | 0.094 | 0.066 | 0.035 |
| 50. SC quant 3 | 0.097 | 0.097 | 0.126 | 0.108 | 0.101 | 0.087 | 0.137 | 0.183 | 0.168 | 0.15 | 0.206 | 0.158 | 0.182 | 0.176 | 0.08 | 0.069 |
| 51. SC Sci 1 | 0.11 | 0.094 | 0.065 | 0.059 | 0.062 | 0.047 | 0.078 | 0.102 | 0.083 | 0.062 | 0.19 | 0.089 | 0.133 | 0.167 | -0.002 | -0.021 |
| 52. SC Sci 2 | -0.06 | -0.016 | -0.025 | -0.03 | -0.043 | -0.035 | -0.016 | 0.024 | 0.042 | 0.037 | 0.153 | 0.142 | 0.115 | 0.211 | 0.006 | -0.043 |
| 53. SC STM N1 | -0.07 | -0.056 | -0.084 | -0.079 | -0.07 | -0.116 | -0.065 | -0.046 | -0.028 | -0.061 | 0.129 | 0.161 | 0.162 | 0.211 | 0.039 | -0.039 |
| 54. SC STM N2 | -0.032 | -0.026 | -0.066 | -0.077 | -0.087 | -0.037 | -0.047 | 0.002 | 0.002 | 0.028 | 0.112 | 0.081 | 0.122 | 0.114 | 0.052 | 0.005 |
| 55. SC Spat 1 vis | 0.01 | 0.002 | 0.045 | 0.076 | 0.047 | 0.04 | 0.074 | 0.032 | 0.015 | 0.031 | 0.218 | 0.105 | 0.15 | 0.212 | -0.022 | -0.012 |
| 56. SC Self-m G | 0.067 | 0.077 | 0.124 | 0.128 | 0.118 | 0.084 | 0.148 | 0.096 | 0.091 | 0.097 | 0.196 | 0.156 | 0.249 | 0.228 | -0.009 | -0.015 |
| 57. SC Self-m B | 0.002 | 0.027 | 0.089 | 0.096 | 0.099 | 0.084 | 0.118 | 0.084 | 0.064 | 0.053 | 0.262 | 0.206 | 0.241 | 0.288 | 0.055 | 0.058 |
| 58. SC Self-m T | -0.01 | -0.009 | -0.012 | -0.015 | -0.014 | 0.015 | 0.003 | 0.026 | 0.025 | 0.031 | 0.218 | 0.219 | 0.185 | 0.213 | 0.056 | 0.042 |
| 59. SC Social 1 | 0.057 | 0.085 | 0.051 | 0.052 | 0.051 | 0.05 | 0.084 | 0.069 | 0.036 | 0.057 | 0.231 | 0.188 | 0.147 | 0.184 | 0.068 | 0.055 |
| 60. SC Social 2 | -0.037 | -0.013 | 0.052 | 0.05 | 0.051 | 0.059 | 0.068 | 0.059 | 0.027 | 0.022 | 0.164 | 0.188 | 0.136 | 0.166 | 0.042 | 0.075 |
| 61. SC Social 3 | 0.084 | 0.105 | 0.059 | 0.067 | 0.069 | 0.079 | 0.095 | 0.114 | 0.097 | 0.137 | 0.107 | 0.072 | 0.092 | 0.207 | -0.02 | -0.077 |
| 62. SC verbal 1 | 0.148 | 0.199 | 0.153 | 0.172 | 0.138 | 0.153 | 0.184 | 0.175 | 0.167 | 0.233 | 0.167 | 0.068 | 0.203 | 0.209 | -0.043 | -0.026 |
| 63. SC verbal 2 | 0.076 | 0.137 | 0.077 | 0.075 | 0.035 | 0.066 | 0.101 | 0.132 | 0.113 | 0.161 | 0.222 | 0.192 | 0.186 | 0.324 | 0.011 | -0.043 |
| 64. SC verbal 3 | -0.06 | -0.03 | -0.128 | -0.103 | -0.119 | -0.074 | -0.092 | -0.053 | -0.032 | -0.026 | 0.097 | 0.061 | 0.077 | 0.074 | 0.233 | 0.091 |
| 65. SC impuls | -0.07 | -0.074 | -0.092 | -0.083 | -0.119 | -0.099 | -0.068 | -0.045 | -0.036 | -0.047 | 0.142 | 0.062 | 0.106 | 0.077 | 0.226 | 0.126 |
| 66. SC speed | -0.099 | -0.08 | -0.114 | -0.089 | -0.122 | -0.102 | -0.097 | -0.059 | -0.048 | -0.093 | 0.072 | 0.075 | -0.025 | -0.051 | 0.313 | 0.283 |

| | | | | | | | | | | | | | | | | |
|------------------|--------|--------|--------|--------|--------|---------|--------|---------|--------|--------|--------|--------|--------|---------|---------|--------|
| 67. SC impuls | -0.038 | -0.03 | 0.013 | 0.032 | 0.013 | 0.043 | 0.04 | 0.087 | 0.081 | 0.047 | 0.096 | 0.137 | 0.151 | 0.125 | 0.028 | 0.018 |
| 68. SC categ | 0.021 | 0.043 | 0.084 | 0.084 | 0.068 | 0.098 | 0.093 | 0.149 | 0.149 | 0.129 | 0.163 | 0.139 | 0.163 | 0.162 | 0.008 | -0.023 |
| 69. SC spa 2 vis | 0.018 | 0.048 | 0.063 | 0.067 | 0.055 | 0.045 | 0.081 | 0.1 | 0.075 | 0.099 | 0.191 | 0.115 | 0.169 | 0.192 | 0.063 | 0.028 |
| 70. SC spa 3 vis | 0.12 | 0.081 | 0.054 | 0.058 | 0.076 | 0.051 | 0.045 | 0.125 | 0.109 | 0.101 | 0.095 | 0.044 | 0.113 | 0.08 | 0.027 | 0.018 |
| 71. SC spa 4 rot | 0.027 | 0.027 | 0.057 | 0.079 | 0.058 | 0.056 | 0.071 | 0.081 | 0.086 | 0.065 | 0.086 | 0.076 | 0.144 | 0.115 | 0.016 | -0.041 |
| 72. SC spa 5 rot | -0.103 | -0.119 | -0.133 | -0.128 | -0.133 | -0.141 | -0.137 | -0.08 | -0.096 | -0.128 | 0.048 | 0.039 | 0.144 | 0.05 | 0.089 | -0.029 |
| 73. SC spa 6 rot | 0.0867 | 0.0294 | 0.0023 | 0.0265 | 0.0001 | -0.0106 | 0.0196 | -0.0122 | 0.0051 | 0.023 | 0.0434 | 0.0123 | 0.0009 | -0.0403 | -0.0102 | 0.016 |
| Mean | 0.0867 | 0.0294 | 0.0023 | 0.0265 | 0.0001 | -0.0106 | 0.0196 | -0.0122 | 0.0051 | 0.023 | 0.0434 | 0.0123 | 0.0009 | -0.0403 | -0.0102 | 0.016 |
| S.D. | 0.9985 | 1.0351 | 1.0122 | 1.0166 | 1.0038 | 0.9992 | 1.0216 | 0.9776 | 0.9742 | 0.9737 | 0.9376 | 0.9572 | 0.9851 | 0.9656 | 0.9459 | 0.9438 |

| Variables | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
|----------------|--------|--------|--------|--------|--------|--------|-------|-------|--------|-------|-------|-------|--------|-------|-------|-------|
| 33. N emo 2 | 1 | | | | | | | | | | | | | | | |
| 34. N emo 3 | 0.485 | 1 | | | | | | | | | | | | | | |
| 35. E 1 | -0.002 | 0.051 | 1 | | | | | | | | | | | | | |
| 36. E 2 | 0.103 | 0.113 | 0.364 | 1 | | | | | | | | | | | | |
| 37. E 3 | -0.01 | 0.006 | 0.39 | 0.29 | 1 | | | | | | | | | | | |
| 38. E 4 | -0.03 | -0.025 | 0.178 | 0.13 | 0.171 | 1 | | | | | | | | | | |
| 39. O 1 | 0.012 | 0.069 | 0.181 | 0.181 | 0.183 | 0.099 | 1 | | | | | | | | | |
| 40. I 1 | 0.066 | 0.107 | 0.221 | 0.238 | 0.238 | 0.019 | 0.378 | 1 | | | | | | | | |
| 41. I 2 | 0.039 | -0.003 | 0.204 | 0.175 | 0.14 | 0.011 | 0.331 | 0.414 | 1 | | | | | | | |
| 42. O 2 | -0.055 | -0.046 | 0.202 | 0.203 | 0.308 | 0.104 | 0.427 | 0.34 | 0.228 | 1 | | | | | | |
| 43. C org 1 | -0.232 | -0.185 | 0.083 | 0.053 | 0.156 | 0.034 | 0.142 | 0.096 | 0.026 | 0.325 | 1 | | | | | |
| 44. C Ach 1 | -0.231 | -0.148 | 0.046 | 0.086 | 0.137 | 0.06 | 0.187 | 0.18 | 0.187 | 0.252 | 0.485 | 1 | | | | |
| 45. C org 2 | -0.151 | -0.12 | 0 | 0.055 | 0.124 | 0.101 | 0.078 | 0.048 | -0.002 | 0.231 | 0.454 | 0.431 | 1 | | | |
| 46. C org 3 | -0.188 | -0.182 | 0.091 | 0.061 | 0.19 | 0.062 | 0.147 | 0.23 | 0.039 | 0.197 | 0.47 | 0.437 | 0.397 | 1 | | |
| 47. SC quant 1 | -0.049 | -0.07 | 0.012 | 0.022 | 0.009 | -0.081 | 0.237 | 0.299 | 0.235 | 0.127 | 0.144 | 0.194 | 0.038 | 0.174 | 1 | |
| 48. SC quant 2 | -0.094 | -0.09 | -0.056 | -0.091 | -0.045 | -0.079 | 0.146 | 0.102 | 0.091 | 0.043 | 0.085 | 0.158 | -0.022 | 0.082 | 0.616 | 1 |
| 49. SC quant 3 | -0.073 | -0.135 | 0.008 | 0.028 | 0.021 | -0.033 | 0.189 | 0.274 | 0.238 | 0.14 | 0.159 | 0.173 | 0.065 | 0.21 | 0.645 | 0.583 |
| 50. SC quant 3 | 0.206 | 0.047 | 0.055 | 0.097 | 0.135 | 0.033 | 0.197 | 0.223 | 0.14 | 0.25 | 0.073 | 0.039 | 0.079 | 0.018 | 0.083 | 0.072 |
| 51. SC Sci 1 | 0.029 | -0.019 | 0.118 | 0.167 | 0.09 | -0.042 | 0.184 | 0.292 | 0.178 | 0.199 | 0.156 | 0.132 | 0.119 | 0.169 | 0.135 | 0.028 |
| 52. SC Sci 2 | 0.039 | -0.055 | 0.089 | 0.146 | 0.097 | -0.044 | 0.311 | 0.33 | 0.216 | 0.293 | 0.195 | 0.154 | 0.12 | 0.12 | 0.235 | 0.069 |
| 53. SC STM N1 | -0.13 | 0.008 | 0.135 | 0.17 | 0.115 | 0.126 | 0.111 | 0.167 | 0.038 | 0.134 | 0.23 | 0.246 | 0.197 | 0.263 | 0.154 | 0.034 |

| | | | | | | | | | | | | | | | | |
|------------------|--------|---------|---------|--------|---------|--------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| 54. SC STM N2 | -0.037 | 0.057 | 0.165 | 0.113 | 0.081 | 0.074 | 0.071 | 0.128 | 0.086 | 0.095 | 0.106 | 0.128 | 0.15 | 0.087 | 0.134 | 0.117 |
| 55. SC Spa 1 vis | -0.002 | 0.047 | 0.171 | 0.139 | 0.178 | 0.143 | 0.127 | 0.129 | 0.094 | 0.1 | 0.149 | 0.148 | 0.099 | 0.074 | 0.13 | 0.053 |
| 56. SC Selfm G | -0.033 | -0.03 | 0.134 | 0.154 | 0.157 | 0.039 | 0.055 | 0.233 | 0.144 | 0.174 | 0.195 | 0.121 | 0.156 | 0.115 | 0.08 | -0.069 |
| 57. SC Selfm B | 0.018 | -0.037 | 0.15 | 0.081 | 0.186 | 0.051 | 0.125 | 0.227 | 0.173 | 0.249 | 0.136 | 0.064 | 0.08 | 0.139 | 0.194 | 0.086 |
| 58. SC Selfm T | 0.045 | 0.046 | 0.132 | 0.137 | 0.164 | 0.048 | 0.11 | 0.241 | 0.188 | 0.206 | 0.168 | 0.124 | 0.193 | 0.205 | 0.171 | 0.008 |
| 59. SC Social 1 | 0.083 | 0.049 | 0.124 | 0.222 | 0.216 | 0.08 | 0.155 | 0.198 | 0.074 | 0.202 | 0.074 | 0.024 | 0.115 | 0.144 | 0.028 | -0.036 |
| 60. SC Social 2 | 0.071 | 0.053 | 0.175 | 0.238 | 0.2 | 0.034 | 0.224 | 0.263 | 0.116 | 0.234 | 0.114 | 0.109 | 0.126 | 0.157 | 0.043 | -0.013 |
| 61. SC Social 3 | 0.119 | 0.099 | 0.089 | 0.169 | 0.058 | -0.041 | 0.217 | 0.258 | 0.098 | 0.181 | 0.055 | 0.068 | 0.068 | 0.074 | -0.019 | -0.056 |
| 62. SC verbal 1 | -0.022 | 0.009 | 0.178 | 0.184 | 0.19 | 0.042 | 0.179 | 0.247 | 0.26 | 0.166 | 0.17 | 0.251 | 0.083 | 0.208 | 0.183 | 0.029 |
| 63. SC verbal 2 | -0.034 | -0.073 | 0.105 | 0.179 | 0.206 | 0.071 | 0.154 | 0.249 | 0.2 | 0.277 | 0.226 | 0.308 | 0.183 | 0.278 | 0.14 | 0.03 |
| 64. SC verbal 3 | -0.003 | -0.053 | 0.212 | 0.256 | 0.259 | 0.087 | 0.244 | 0.266 | 0.251 | 0.252 | 0.208 | 0.231 | 0.11 | 0.214 | 0.14 | -0.005 |
| 65. SC impuls | 0.265 | 0.224 | 0.221 | 0.181 | 0.135 | 0.115 | 0.099 | 0.184 | 0.19 | 0.057 | -0.095 | -0.014 | -0.064 | -0.005 | 0.072 | 0.01 |
| 66. SC speed | 0.166 | 0.207 | 0.153 | 0.154 | 0.111 | 0.097 | 0.199 | 0.233 | 0.15 | 0.088 | -0.1 | -0.012 | -0.028 | -0.009 | 0.083 | 0.043 |
| 67. SC impuls | 0.39 | 0.309 | 0.201 | 0.201 | 0.202 | 0.048 | 0.102 | 0.138 | 0.117 | 0.097 | -0.111 | -0.111 | -0.028 | -0.083 | 0.012 | -0.119 |
| 68. SC categ | 0.062 | 0.042 | 0.072 | 0.126 | 0.148 | 0.047 | 0.33 | 0.193 | 0.22 | 0.249 | 0.106 | 0.062 | 0.124 | 0.118 | 0.218 | 0.085 |
| 69. SC spa 2 vis | 0.037 | -0.037 | 0.046 | 0.115 | 0.135 | -0.005 | 0.223 | 0.135 | 0.121 | 0.178 | 0.185 | 0.107 | 0.137 | 0.233 | 0.187 | 0.043 |
| 70. SC spa 3 vis | 0.029 | 0.048 | 0.174 | 0.159 | 0.199 | 0.056 | 0.29 | 0.19 | 0.146 | 0.296 | 0.232 | 0.157 | 0.161 | 0.181 | 0.199 | 0.072 |
| 71. SC spa 4 rot | -0.011 | 0.001 | 0.012 | 0.04 | 0.119 | 0.048 | 0.164 | 0.122 | 0.026 | 0.071 | -0.003 | 0.026 | -0.027 | 0.036 | 0.111 | 0.098 |
| 72. SC spa 5 rot | 0.094 | -0.057 | 0.057 | 0.134 | 0.146 | -0.034 | 0.213 | 0.155 | 0.039 | 0.137 | 0.046 | 0.074 | 0.053 | 0.098 | 0.106 | 0.092 |
| 73. SC spa 6 rot | 0.058 | 0.008 | 0.122 | 0.017 | 0.073 | 0.003 | 0.176 | 0.122 | 0.18 | 0.069 | 0.035 | 0.017 | 0.031 | 0.004 | 0.071 | 0.072 |
| Mean | 0.0417 | -0.0334 | -0.0179 | 0.0918 | -0.0242 | 0.0585 | -0.0403 | -0.0323 | -0.0478 | -0.0298 | -0.0549 | -0.0483 | -0.0424 | -0.0523 | 3.0875 | 2.685 |
| S.D. | 0.9685 | 0.8276 | 0.9621 | 0.9553 | 1.002 | 1.3222 | 0.9418 | 0.9389 | 0.9358 | 0.9692 | 0.9429 | 0.9233 | 0.9254 | 0.9563 | 1.1371 | 1.4092 |

| Variables | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 49. SC quant 3 | 1 | | | | | | | | | | | | | | | |
| 50. SC quant 3 | 0.17 | 1 | | | | | | | | | | | | | | |
| 51. SC Sci 1 | 0.122 | 0.311 | 1 | | | | | | | | | | | | | |
| 52. SC Sci 2 | 0.228 | 0.305 | 0.326 | 1 | | | | | | | | | | | | |
| 53. SC STM N1 | 0.153 | 0.087 | 0.193 | 0.121 | 1 | | | | | | | | | | | |
| 54. SC STM N2 | 0.138 | 0.04 | 0.091 | 0.128 | 0.342 | 1 | | | | | | | | | | |
| 55. SC Spa 1 vis | 0.132 | 0.108 | 0.099 | 0.163 | 0.381 | 0.177 | 1 | | | | | | | | | |
| 56. SC Selfm G | 0.068 | 0.204 | 0.226 | 0.228 | 0.199 | 0.164 | 0.185 | 1 | | | | | | | | |
| 57. SC Selfm B | 0.184 | 0.256 | 0.215 | 0.19 | 0.106 | 0.134 | 0.08 | 0.366 | 1 | | | | | | | |
| 58. SC Selfm T | 0.129 | 0.267 | 0.291 | 0.198 | 0.124 | 0.157 | 0.122 | 0.463 | 0.445 | 1 | | | | | | |
| 59. SC Social 1 | -0.032 | 0.116 | 0.291 | 0.2 | 0.152 | 0.1 | 0.157 | 0.265 | 0.194 | 0.315 | 1 | | | | | |
| 60. SC Social 2 | 0.036 | 0.15 | 0.369 | 0.299 | 0.21 | 0.085 | 0.181 | 0.337 | 0.251 | 0.284 | 0.595 | 1 | | | | |
| 61. SC Social 3 | -0.08 | 0.187 | 0.387 | 0.226 | 0.108 | 0.024 | 0.083 | 0.247 | 0.172 | 0.265 | 0.447 | 0.619 | 1 | | | |
| 62. SC verbal 1 | 0.13 | 0.083 | 0.156 | 0.133 | 0.165 | 0.161 | 0.112 | 0.143 | 0.162 | 0.163 | 0.134 | 0.126 | 0.057 | 1 | | |
| 63. SC verbal 2 | 0.156 | 0.214 | 0.202 | 0.223 | 0.182 | 0.184 | 0.116 | 0.219 | 0.244 | 0.213 | 0.111 | 0.207 | 0.106 | 0.439 | 1 | |
| 64. SC verbal 3 | 0.153 | 0.127 | 0.181 | 0.174 | 0.201 | 0.152 | 0.174 | 0.145 | 0.229 | 0.218 | 0.213 | 0.241 | 0.197 | 0.387 | 0.35 | 1 |
| 65. SC impuls | 0.055 | 0.21 | 0.068 | 0.09 | 0.135 | 0.179 | 0.167 | 0.022 | 0.149 | 0.114 | 0.133 | 0.229 | 0.123 | 0.092 | 0.06 | 0.127 |
| 66. SC speed | 0.057 | 0.165 | 0.076 | 0.139 | 0.028 | 0.194 | 0.004 | 0.056 | 0.116 | 0.144 | 0.146 | 0.19 | 0.089 | 0.089 | 0.125 | 0.184 |
| 67. SC impuls | -0.035 | 0.153 | 0.148 | 0.118 | -0.016 | 0.041 | 0.053 | 0.031 | 0.044 | 0.147 | 0.148 | 0.187 | 0.113 | 0.13 | 0.094 | 0.104 |
| 68. SC categ | 0.172 | 0.21 | 0.194 | 0.254 | 0.151 | 0.121 | 0.09 | 0.056 | 0.291 | 0.304 | 0.255 | 0.225 | 0.193 | 0.182 | 0.123 | 0.263 |
| 69. SC spa 2 vis | 0.082 | 0.192 | 0.282 | 0.298 | 0.148 | 0.095 | 0.183 | 0.189 | 0.198 | 0.311 | 0.244 | 0.202 | 0.205 | 0.164 | 0.219 | 0.22 |
| 70. SC spa 3 vis | 0.128 | 0.249 | 0.289 | 0.286 | 0.17 | 0.16 | 0.189 | 0.278 | 0.237 | 0.341 | 0.104 | 0.204 | 0.162 | 0.21 | 0.305 | 0.288 |
| 71. SC spa 4 rot | 0.106 | 0.158 | 0.24 | 0.126 | 0.122 | 0 | 0.1 | 0.151 | 0.186 | 0.217 | 0.083 | 0.114 | 0.125 | 0.144 | 0.122 | 0.084 |
| 72. SC spa 5 rot | 0.166 | 0.235 | 0.278 | 0.178 | 0.182 | 0.151 | 0.122 | 0.116 | 0.182 | 0.119 | 0.159 | 0.209 | 0.155 | 0.239 | 0.164 | 0.176 |
| 73. SC spa 6 rot | 0.046 | 0.125 | 0.11 | 0.199 | 0.138 | 0.271 | 0.206 | 0.052 | 0.104 | 0.132 | 0.031 | 0.11 | 0.103 | 0.17 | 0.009 | 0.031 |
| Mean | 3.12 | 4.0025 | 3.8375 | 3.37 | 3.265 | 3.145 | 3.3825 | 3.5525 | 3.71 | 3.6325 | 3.3875 | 3.2975 | 3.4125 | 3.3225 | 3.835 | 3.5825 |
| S.D. | 1.0833 | 1.0025 | 0.91 | 0.9646 | 1.1718 | 1.3127 | 1.2165 | 1.1426 | 1.0671 | 1.0149 | 1.136 | 1.1455 | 1.116 | 1.0203 | 1.0657 | 0.9698 |

| Variables | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 |
|------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 65. SC impuls | 1 | | | | | | | | |
| 66. SC speed | 0.492 | 1 | | | | | | | |
| 67. SC impuls | 0.356 | 0.244 | 1 | | | | | | |
| 68. SC categ | 0.169 | 0.154 | 0.209 | 1 | | | | | |
| 69. SC spa 2 vis | 0.082 | 0.028 | 0.126 | 0.298 | 1 | | | | |
| 70. SC spa 3 vis | 0.04 | 0.08 | 0.1 | 0.281 | 0.43 | 1 | | | |
| 71. SC spa 4 rot | 0.037 | 0.014 | 0.054 | 0.135 | 0.257 | 0.266 | 1 | | |
| 72. SC spa 5 rot | 0.103 | 0.06 | 0.161 | 0.3 | 0.285 | 0.305 | 0.295 | 1 | |
| 73. SC spa 6 rot | 0.15 | 0.124 | 0.064 | 0.192 | 0.135 | 0.19 | 0.147 | 0.178 | 1 |
| Mean | 2.965 | 3.0175 | 2.825 | 2.975 | 3.3925 | 3.455 | 4.0375 | 3.605 | 3.1075 |
| S.D. | 1.165 | 1.0932 | 1.1652 | 1.0009 | 0.9331 | 0.9408 | 1.1421 | 1.1009 | 1.0972 |

Note: A, N, E, O, I, and C stand for Agreeableness, Neuroticism, Extroversion, Openness, Intellect, and Conscientiousness. Emo=emotional stability; org=organization; ach=success; Conc=understanding complex in a school subject; concepts SC=Self-concept. Selfm=Self-monitoring; Categ=Categorical reasoning; SR=self-representation; GFP= General Factor of Personality; subscripts spa, ma, ca, me, so, ve, sct, lm, emo, and imp stand for self-representation in spatial reasoning, mathematics, categorical reasoning, mental efficiency, social reasoning, verbal reasoning, self-control, logical deductive reasoning, emotional stability, and impulsivity, respectively.

Chi-square = 4451.125, Df = 2519, p =.00, CFI=.995, RMASE =.04 (CI= .042-.046).

Cronbach's alpha (for the variables included in the model) = .90

Reliability coefficient Rho = .94

| STANDARDIZED SOLUTION: | | | | R-SQUARED |
|------------------------|----------|---|-----------|-----------|
| LETTERSZ=V13 = | .423 F1 | + | .906 E13 | .179 |
| FPAPER Z=V14 = | .567*F1 | + | .824 E14 | .322 |
| CLOCK Z=V15 = | .503*F1 | + | .864 E15 | .253 |
| SEED Z=V18 = | .473 F2 | + | .881 E18 | .223 |
| CAKE Z=V19 = | .536*F2 | + | .844 E19 | .287 |
| TRACK Z=V20 = | .454*F2 | + | .891 E20 | .206 |
| MAT Z=V21 = | .599 F3 | + | .801 E21 | .359 |
| VAN Z=V22 = | .623*F3 | + | .782 E22 | .388 |
| CATRR Z=V23 = | .292*F3 | + | .956 E23 | .085 |
| PROR Z=V24 = | .591 F4 | + | .807 E24 | .349 |
| TRUTH Z=V25 = | .619*F4 | + | .786 E25 | .383 |
| ALG Z=V26 = | .728 F5 | + | .686 E26 | .530 |
| OP Z=V27 = | .598*F5 | + | .802 E27 | .357 |
| NAN Z=V28 = | .649*F5 | + | .760 E28 | .422 |
| MAUCC Z=V40 = | .934 F6 | + | .357 E40 | .872 |
| MFL Z=V41 = | .947*F6 | + | .320 E41 | .898 |
| MEULC Z=V43 = | .960*F6 | + | .278 E43 | .922 |
| MACHIEVZ=V46 = | .964*F6 | + | .264 E46 | .930 |
| PAUCC Z=V47 = | .975 F7 | + | .222 E47 | .951 |
| PFL Z=V48 = | .971*F7 | + | .240 E48 | .942 |
| PEULC Z=V50 = | .950*F7 | + | .313 E50 | .902 |
| PEFFICIZ=V52 = | .913*F7 | + | .409 E52 | .833 |
| PACHIEVZ=V53 = | 1.000 F8 | + | .032 E53 | .999 |
| GAUCC Z=V54 = | .778*F8 | + | .628 E54 | .606 |
| GEULC Z=V57 = | .790*F8 | + | .613 E57 | .624 |
| GACHIEVZ=V60 = | .893*F8 | + | .451 E60 | .797 |
| F4HEL47Z=V98 = | .734 F21 | + | .679 E98 | .539 |
| F4HEL31Z=V99 = | .733*F21 | + | .680 E99 | .537 |
| F4AG23 Z=V100= | .643*F21 | + | .766 E100 | .414 |
| F4AG37 Z=V101= | .609*F21 | + | .793 E101 | .371 |
| F1EGO4 Z=V102= | .774 F22 | + | .633 E102 | .599 |
| F1EMO25Z=V103= | .756*F22 | + | .654 E103 | .572 |
| F1EMO34Z=V104= | .665*F22 | + | .747 E104 | .442 |
| F1EMO38Z=V105= | .685*F22 | + | .729 E105 | .469 |
| F5EXT46Z=V106= | .604 F23 | + | .797 E106 | .365 |
| F5EXT3 Z=V107= | .542*F23 | + | .840 E107 | .294 |
| F5EXT13Z=V108= | .620*F23 | + | .785 E108 | .384 |
| F5EXT36Z=V109= | .255*F23 | + | .967 E109 | .065 |
| F3OPE50Z=V110= | .621 F24 | + | .784 E110 | .385 |
| F3INT29Z=V111= | .638*F24 | + | .770 E111 | .408 |
| F3INT1 Z=V112= | .489*F24 | + | .872 E112 | .239 |
| F3OPE21Z=V113= | .621*F24 | + | .784 E113 | .386 |
| F2ORG20Z=V114= | .717 F25 | + | .698 E114 | .513 |
| F2ACHI2Z=V115= | .692*F25 | + | .722 E115 | .479 |
| F2ORG24Z=V116= | .610*F25 | + | .792 E116 | .372 |
| F2ORG27Z=V117= | .665*F25 | + | .747 E117 | .442 |
| 64QR6 Q=V135= | .838 F91 | + | .546 E135 | .702 |
| 6QR1 Q=V136= | .731*F91 | + | .682 E136 | .535 |
| 19QR2 Q=V137= | .781*F91 | + | .624 E137 | .610 |
| 38CE4 Q=V139= | .498 F92 | + | .867 E139 | .248 |
| 68CE7 Q=V140= | .600*F92 | + | .800 E140 | .360 |
| 65CE6 Q=V141= | .578*F92 | + | .816 E141 | .334 |
| 35STM1 Q=V143= | .691 F93 | + | .723 E143 | .477 |
| 45STM2 Q=V144= | .482*F93 | + | .876 E144 | .232 |
| 16SI3 Q=V145= | .514*F93 | + | .858 E145 | .264 |
| 32SMG3 Q=V147= | .609 F94 | + | .793 E147 | .371 |
| 52SMB Q=V148= | .617*F94 | + | .787 E148 | .381 |
| 59SMT Q=V149= | .736*F94 | + | .677 E149 | .541 |
| 30SO3 Q=V151= | .667 F95 | + | .745 E151 | .445 |

| | | | | | | | | | |
|---------|---------|------------|-----------|---------|----------|------|----------|---|----------|
| 42SO4 | Q=V152= | .892*F95 | + | .452 | E152 | | | | .796 |
| 8SO1 | Q=V153= | .690*F95 | + | .724 | E153 | | | | .476 |
| 77V6 | Q=V154= | .607 F96 | + | .794 | E154 | | | | .369 |
| 76V5 | Q=V155= | .655*F96 | + | .756 | E155 | | | | .429 |
| 10V1 | Q=V156= | .614*F96 | + | .789 | E156 | | | | .377 |
| 41IMP4 | Q=V157= | .778 F97 | + | .628 | E157 | | | | .606 |
| 46SP2 | Q=V158= | .624*F97 | + | .781 | E158 | | | | .389 |
| 73IMP5 | Q=V159= | .449*F97 | + | .894 | E159 | | | | .201 |
| 51QA3 | Q=V160= | .514 F98 | + | .858 | E160 | | | | .265 |
| 72SI10 | Q=V161= | .592*F98 | + | .806 | E161 | | | | .350 |
| 71SI9 | Q=V162= | .650*F98 | + | .760 | E162 | | | | .422 |
| 63SI6 | Q=V164= | .464 F99 | + | .886 | E164 | | | | .215 |
| 74SI11 | Q=V165= | .590*F99 | + | .807 | E165 | | | | .349 |
| 66SI7 | =V166= | .343*F99 | + | .939 | E166 | | | | .117 |
| SPACE | =F1 = | .841 F10 | + | .541 | D1 | | | | .707 |
| CAUSE | =F2 = | .960*F10 | + | .278 | D2 | | | | .922 |
| CATEG | =F3 = | .903*F10 | + | .430 | D3 | | | | .815 |
| DEDUCT | =F4 = | .888*F10 | + | .460 | D4 | | | | .789 |
| QUANT | =F5 = | .889*F10 | + | .458 | D5 | | | | .790 |
| MATHS | =F6 = | .803 F400 | + | .597 | D6 | | | | .644 |
| SCIENCE | =F7 = | .981*F400 | + | .196 | D7 | | | | .962 |
| LANG | =F8 = | .937*F400 | + | .350 | D8 | | | | .878 |
| COGN-SR | =F9 = | 1.000*F999 | + | .000 | D9 | | | | 1.000 |
| GF | =F10 = | .226*F999 | + | .974 | D10 | | | | .051 |
| AGREE | =F21 = | .573*F201 | + | .819 | D21 | | | | .329 |
| NEURO | =F22 = | -.001*F201 | + | 1.000 | D22 | | | | .000 |
| EXTRO | =F23 = | .628 F201 | + | .778 | D23 | | | | .394 |
| OPEN | =F24 = | .830*F201 | + | .558 | D24 | | | | .688 |
| CONSC | =F25 = | .531 F201 | + | .847 | D25 | | | | .282 |
| SR_MATH | =F91 = | .337 F9 | + | .942 | D91 | | | | .113 |
| SR_CAUS | =F92 = | .864*F9 | + | .503 | D92 | | | | .747 |
| SR_MEM | =F93 = | .549*F9 | + | .836 | D93 | | | | .301 |
| SR_SLFM | =F94 = | .719*F9 | + | .695 | D94 | | | | .518 |
| SR_SOC | =F95 = | .573*F9 | + | .820 | D95 | | | | .328 |
| SR_VERB | =F96 = | .690*F9 | + | .724 | D96 | | | | .476 |
| SR_IMP | =F97 = | .354*F9 | + | .935 | D97 | | | | .125 |
| SR_SCTR | =F98 = | .867*F9 | + | .499 | D98 | | | | .751 |
| SR_LEAR | =F99 = | .730*F9 | + | .684 | D99 | | | | .532 |
| GFP | =F201= | .854*F999 | + | .521 | D201 | | | | .729 |
| GAP | =F400= | .154*F999 | + | .000*D9 | | + | .523*D10 | + | .072*D24 |
| | | + | .281*D25 | + | .197*D91 | - | .205*D93 | + | .248*D96 |
| | | - | .137*D201 | + | .676 | D400 | | | .543 |

STUDY 5

Table 5. Correlation matrix of all variables used in Study 5 (N=247).

| Variables | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|
| 1. Under Emot 1 | 1 | | | | | | | | | | | | | | | |
| 2. Under Emot 2 | 0.539 | 1 | | | | | | | | | | | | | | |
| 3. Under Emot 3 | 0.598 | 0.647 | 1 | | | | | | | | | | | | | |
| 4. Paper fold | 0.237 | 0.25 | 0.206 | 1 | | | | | | | | | | | | |
| 5. Perspectives | -0.018 | 0.111 | 0.076 | 0.194 | 1 | | | | | | | | | | | |
| 6. Num analog | 0.088 | 0.147 | 0.086 | 0.249 | 0.169 | 1 | | | | | | | | | | |
| 7. Num series | 0.181 | 0.221 | 0.155 | 0.231 | 0.315 | 0.291 | 1 | | | | | | | | | |
| 8. Experim | 0.093 | 0.204 | 0.085 | 0.207 | 0.289 | 0.248 | 0.31 | 1 | | | | | | | | |
| 9. Combin | 0.176 | 0.112 | 0.111 | 0.221 | 0.309 | 0.125 | 0.248 | 0.181 | 1 | | | | | | | |
| 10. Social und 1 | 0.309 | 0.368 | 0.299 | 0.434 | 0.146 | 0.247 | 0.309 | 0.22 | 0.376 | 1 | | | | | | |
| 11. Social und 2 | 0.3 | 0.398 | 0.343 | 0.352 | 0.102 | 0.129 | 0.303 | 0.166 | 0.199 | 0.516 | 1 | | | | | |
| 12. SC Maths 1 | 0.08 | 0.006 | -0.035 | 0.035 | 0.018 | 0.061 | 0.094 | -0.093 | 0.048 | -0.025 | 0.07 | 1 | | | | |
| 13. SC Maths 2 | 0.059 | 0.074 | 0.049 | -0.024 | 0.023 | 0.097 | 0.038 | -0.044 | 0.128 | 0.005 | 0.084 | 0.659 | 1 | | | |
| 14. SC exp 1 | 0.198 | 0.122 | 0.167 | 0.186 | 0.046 | 0.102 | 0.216 | 0.075 | 0.194 | 0.158 | 0.271 | 0.379 | 0.361 | 1 | | |
| 15. SC exp 2 | 0.055 | -0.005 | 0.042 | 0.037 | 0.102 | 0.029 | 0.111 | 0.059 | 0.038 | 0.032 | 0.041 | 0.325 | 0.219 | 0.469 | 1 | |
| 16. SC social 1 | 0.173 | 0.106 | 0.189 | 0.034 | 0.048 | 0.017 | 0.13 | 0.086 | 0.054 | 0.157 | 0.149 | 0.258 | 0.247 | 0.496 | 0.51 | 1 |
| 17 SC social 2 | 0.179 | 0.071 | 0.217 | 0.14 | 0.131 | 0.046 | 0.136 | 0.14 | 0.173 | 0.204 | 0.222 | 0.292 | 0.231 | 0.547 | 0.481 | 0.473 |
| 18. SC Vis mem | -0.007 | -0.055 | -0.035 | 0.052 | -0.056 | 0.016 | -0.024 | -0.138 | -0.028 | 0.003 | 0.007 | 0.342 | 0.307 | 0.377 | 0.488 | 0.409 |
| 19. SC Speed | 0.072 | 0.059 | -0.01 | -0.023 | -0.002 | 0.044 | 0.055 | -0.13 | -0.041 | -0.129 | 0.022 | 0.427 | 0.393 | 0.29 | 0.303 | 0.312 |
| 20. Consc Ach | 0.068 | 0.109 | 0.059 | 0.055 | -0.089 | 0.026 | 0.01 | 0.085 | 0.075 | 0.006 | 0.157 | 0.252 | 0.353 | 0.201 | 0.146 | 0.137 |
| 21. Consc Organ | 0.075 | 0.112 | 0.034 | 0.034 | -0.129 | -0.021 | -0.035 | 0.03 | 0.097 | 0.023 | 0.06 | 0.166 | 0.285 | 0.242 | 0.246 | 0.251 |
| 22. Consc Emot | -0.122 | -0.155 | -0.026 | -0.01 | 0.119 | 0 | 0.008 | 0.04 | 0.055 | -0.154 | -0.11 | -0.035 | -0.113 | -0.067 | 0.006 | -0.111 |
| 23. Consc Ego | -0.004 | -0.022 | 0.098 | 0.025 | 0.113 | 0.068 | 0.023 | 0.06 | 0.039 | -0.105 | -0.042 | 0.043 | 0.054 | -0.05 | 0.053 | 0.033 |
| 24. Extro Prosoc | 0.094 | 0.166 | 0.157 | 0.107 | -0.044 | -0.058 | -0.012 | 0.093 | 0.114 | 0.126 | 0.153 | -0.078 | 0.003 | 0.043 | 0.112 | 0.061 |
| 25. Extro others | 0.072 | 0.074 | 0.176 | -0.042 | -0.088 | 0.046 | -0.05 | -0.013 | 0.024 | 0.045 | 0.088 | 0.005 | 0.149 | 0.086 | 0.169 | 0.179 |
| 26. Agree help | 0.105 | 0.135 | 0.134 | 0.102 | -0.114 | -0.028 | 0.007 | 0.191 | -0.007 | 0.079 | 0.151 | -0.075 | -0.046 | 0.145 | 0.3 | 0.3 |
| 27. Agree agree | 0.081 | 0.173 | 0.173 | -0.019 | -0.094 | -0.064 | -0.042 | 0.085 | -0.112 | -0.008 | 0.168 | -0.01 | 0.054 | 0.104 | 0.22 | 0.211 |
| 28. Agree sensit | 0.005 | 0.069 | 0.081 | 0.008 | 0.022 | -0.152 | -0.104 | 0.113 | 0.014 | -0.027 | 0.045 | -0.096 | -0.064 | 0.044 | 0.186 | 0.126 |

| | | | | | | | | | | | | | | | | |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 29. Open Intel | 0.045 | 0.083 | -0.035 | -0.023 | -0.049 | 0.056 | 0.103 | 0.06 | 0.017 | -0.084 | 0.123 | 0.344 | 0.401 | 0.311 | 0.22 | 0.138 |
| 30. Open open | -0.072 | 0.017 | 0.029 | 0.017 | 0.059 | 0.026 | -0.007 | 0.17 | 0.04 | 0.001 | 0.081 | 0.016 | 0.152 | 0.1 | 0.142 | 0.114 |
| 31. EI Social | 0.035 | 0.052 | 0.057 | -0.024 | -0.094 | -0.008 | 0.079 | 0.067 | 0.091 | 0.086 | 0.142 | 0.22 | 0.276 | 0.276 | 0.185 | 0.146 |
| 32. EI_Cogn | 0.131 | 0.08 | 0.125 | 0.09 | -0.039 | 0.079 | 0.093 | 0.129 | 0.081 | 0.108 | 0.131 | 0.041 | 0.242 | 0.264 | 0.221 | 0.265 |
| 33. EI Emot 1 | -0.181 | -0.267 | -0.182 | -0.193 | -0.085 | -0.099 | -0.219 | -0.215 | -0.047 | -0.26 | -0.24 | 0.093 | -0.104 | -0.134 | 0.023 | -0.127 |
| 34. EI Emot 2 | -0.224 | -0.233 | -0.237 | -0.224 | -0.049 | -0.162 | -0.219 | -0.241 | -0.108 | -0.303 | -0.221 | 0.108 | 0.05 | -0.15 | 0.11 | 0.07 |
| 35. EI Soc know | -0.021 | 0.025 | -0.09 | 0.169 | 0.166 | 0.074 | 0.129 | 0.092 | 0.127 | 0.262 | 0.176 | 0.155 | 0.136 | 0.289 | 0.334 | 0.398 |
| 36. EI Social act | 0.009 | 0.064 | -0.041 | 0.052 | 0.01 | -0.069 | 0.067 | 0.13 | 0.12 | 0.137 | 0.089 | 0.143 | 0.161 | 0.269 | 0.345 | 0.308 |
| 37. EI constr 1 | 0.137 | 0.125 | 0.169 | 0.174 | -0.061 | 0.08 | 0.098 | 0.093 | 0.119 | 0.085 | 0.214 | 0.146 | 0.212 | 0.282 | 0.331 | 0.176 |
| 38. EI constr 2 | 0.014 | 0.085 | 0.09 | 0.02 | -0.142 | -0.041 | -0.08 | -0.086 | 0.021 | 0.009 | 0.149 | 0.112 | 0.202 | 0.202 | 0.22 | 0.017 |
| 39. Sch Greek | 0.088 | 0.176 | 0.124 | 0.161 | 0.046 | 0.016 | 0.074 | 0.109 | 0.275 | 0.296 | 0.251 | 0.203 | 0.352 | 0.319 | 0.144 | 0.048 |
| 40. Sch Maths | 0.208 | 0.17 | 0.129 | 0.18 | 0.069 | 0.097 | 0.137 | 0.177 | 0.336 | 0.279 | 0.229 | 0.319 | 0.41 | 0.245 | 0.125 | 0.049 |
| 41. EI under Perf | 0.274 | 0.318 | 0.263 | 0.198 | 0.131 | 0.113 | 0.269 | 0.334 | 0.138 | 0.273 | 0.294 | -0.115 | -0.022 | 0.095 | -0.043 | 0.135 |
| 42. EI under H | 0.144 | 0.197 | 0.132 | 0.375 | 0.264 | 0.193 | 0.301 | 0.37 | 0.317 | 0.328 | 0.272 | -0.011 | 0.055 | 0.19 | 0.044 | 0.122 |
| 43. EI under Reas | 0.104 | 0.084 | 0.168 | 0.261 | 0.084 | 0.093 | 0.274 | 0.224 | 0.303 | 0.313 | 0.221 | -0.024 | 0.005 | 0.3 | 0.133 | 0.236 |
| Mean | 1.5 | 1.1145 | 1.247 | 1.502 | 1.0873 | 1.4056 | 0.5703 | 1.2771 | 0.8514 | 1.2731 | 0.8494 | 3.119 | 3.2811 | 3.1426 | 3.255 | 3.2711 |
| S.D. | 0.7687 | 0.8557 | 0.8906 | 0.4099 | 0.7547 | 0.48 | 0.4217 | 0.4534 | 0.5375 | 0.4514 | 0.5132 | 0.854 | 0.8959 | 0.7515 | 0.7448 | 0.812 |

| Variables | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 17 SC social 2 | 1 | | | | | | | | | | | | | | | |
| 18. SC Vis mem | 0.232 | 1 | | | | | | | | | | | | | | |
| 19. SC Speed | 0.223 | 0.453 | 1 | | | | | | | | | | | | | |
| 20. Consc Ach | 0.227 | 0.201 | 0.194 | 1 | | | | | | | | | | | | |
| 21. Consc Org | 0.251 | 0.211 | 0.117 | 0.642 | 1 | | | | | | | | | | | |
| 22. Consc Emot | -0.089 | -0.05 | -0.039 | -0.149 | -0.09 | 1 | | | | | | | | | | |
| 23. Consc Ego | -0.111 | -0.08 | 0.041 | -0.147 | -0.089 | 0.547 | 1 | | | | | | | | | |
| 24. Extro Prosoc | -0.025 | 0.038 | 0 | 0.141 | 0.174 | 0.205 | 0.187 | 1 | | | | | | | | |
| 25. Extro others | 0.212 | 0.127 | 0.173 | 0.235 | 0.229 | 0.032 | -0.025 | 0.49 | 1 | | | | | | | |
| 26. Agree help | 0.168 | 0.079 | -0.008 | 0.221 | 0.356 | -0.076 | -0.087 | 0.267 | 0.206 | 1 | | | | | | |
| 27. Agree agree | 0.153 | 0.115 | 0.012 | 0.309 | 0.442 | -0.145 | -0.153 | 0.254 | 0.339 | 0.658 | 1 | | | | | |
| 28. Agree sensit | 0.125 | -0.018 | -0.077 | 0.005 | 0.225 | 0.269 | 0.138 | 0.152 | 0.113 | 0.483 | 0.289 | 1 | | | | |
| 29. Open Intel | 0.216 | 0.227 | 0.23 | 0.398 | 0.503 | -0.039 | 0.043 | 0.162 | 0.24 | 0.161 | 0.224 | 0.053 | 1 | | | |
| 30. Open open | 0.108 | 0.201 | 0.113 | 0.166 | 0.208 | 0.231 | 0.245 | 0.273 | 0.281 | 0.079 | 0.147 | 0.041 | 0.425 | 1 | | |
| 31. EI Social | 0.206 | 0.148 | 0.054 | 0.335 | 0.261 | -0.035 | 0.064 | 0.283 | 0.211 | 0.15 | 0.304 | -0.018 | 0.378 | 0.196 | 1 | |
| 32. EI_Cogn | 0.256 | 0.136 | 0.186 | 0.301 | 0.313 | -0.036 | 0.156 | 0.216 | 0.189 | 0.21 | 0.344 | 0.106 | 0.271 | 0.182 | 0.621 | 1 |
| 33. EI Emot 1 | -0.059 | -0.031 | 0.185 | -0.096 | -0.074 | 0.206 | 0.119 | -0.105 | -0.021 | -0.06 | -0.096 | 0.087 | -0.016 | 0.013 | -0.196 | -0.176 |
| 34. EI Emot 2 | -0.128 | 0.057 | 0.121 | -0.124 | -0.005 | -0.007 | 0.104 | -0.102 | -0.004 | -0.002 | 0.014 | 0.038 | 0.022 | 0.039 | -0.026 | -0.062 |
| 35. EI Soc know | 0.267 | 0.219 | 0.162 | 0.06 | 0.202 | -0.003 | 0.04 | 0.158 | 0.172 | 0.273 | 0.234 | 0.136 | 0.201 | 0.18 | 0.321 | 0.45 |
| 36. EI Soc act | 0.256 | 0.215 | 0.214 | 0.187 | 0.257 | -0.02 | 0.016 | 0.23 | 0.119 | 0.235 | 0.297 | 0.2 | 0.244 | 0.157 | 0.338 | 0.5 |
| 37. EI constr 1 | 0.337 | 0.11 | 0.171 | 0.255 | 0.287 | 0.005 | 0.033 | 0.242 | 0.118 | 0.292 | 0.31 | 0.257 | 0.173 | 0.099 | 0.292 | 0.288 |
| 38. EI constr 2 | 0.115 | 0.23 | 0.092 | 0.3 | 0.352 | -0.179 | -0.157 | 0.203 | 0.193 | 0.278 | 0.401 | 0.179 | 0.262 | 0.111 | 0.302 | 0.239 |
| 39. Sch Greek | 0.165 | 0.095 | -0.02 | 0.359 | 0.296 | -0.256 | -0.158 | 0.037 | 0.099 | 0.135 | 0.127 | 0.008 | 0.234 | -0.055 | 0.219 | 0.056 |
| 40. Sch Maths | 0.146 | 0.037 | -0.003 | 0.371 | 0.282 | -0.135 | -0.035 | 0.089 | 0.029 | 0.07 | 0.007 | 0 | 0.225 | -0.031 | 0.185 | 0.076 |
| 41. EI under Perf | 0.063 | -0.113 | -0.152 | 0.174 | 0.083 | -0.063 | -0.051 | 0.205 | 0.059 | 0.188 | 0.087 | 0.029 | 0.083 | 0.038 | 0.161 | 0.084 |
| 42. EI under H | 0.24 | -0.018 | -0.012 | 0.103 | 0.128 | -0.037 | -0.044 | 0.038 | -0.073 | 0.102 | -0.01 | 0.097 | 0.134 | 0.13 | 0.023 | 0.112 |
| 43. EI under Reas | 0.194 | 0.051 | -0.023 | -0.045 | -0.049 | 0.142 | 0.15 | 0.229 | 0.098 | 0.006 | -0.049 | 0.017 | -0.03 | 0.068 | 0.155 | 0.136 |
| Mean | 3.3133 | 3.2932 | 2.9096 | 3.5964 | 3.5437 | 2.5377 | 2.5281 | 3.4217 | 3.8855 | 3.6124 | 3.6627 | 2.7309 | 3.6807 | 3.3554 | 3.6069 | 3.497 |
| S.D. | 0.7047 | 0.7236 | 0.9265 | 0.9831 | 0.8506 | 0.9437 | 0.9718 | 0.8402 | 0.7474 | 0.9111 | 0.7802 | 1.0451 | 0.7511 | 0.931 | 0.8129 | 0.7446 |

| Variables | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 |
|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 33. EI Emot 1 | 1 | | | | | | | | | | |
| 34. EI Emot 2 | 0.533 | 1 | | | | | | | | | |
| 35. EI_Soci know | -0.021 | 0.082 | 1 | | | | | | | | |
| 36. EI Soci act | -0.101 | -0.015 | 0.606 | 1 | | | | | | | |
| 37. EI constr 1 | -0.109 | -0.168 | 0.135 | 0.226 | 1 | | | | | | |
| 38. EI constr 2 | -0.089 | -0.012 | 0.101 | 0.136 | 0.429 | 1 | | | | | |
| 39. Sch Greek | -0.189 | -0.115 | 0.056 | 0.081 | 0.108 | 0.234 | 1 | | | | |
| 40. Sch Maths | -0.177 | -0.125 | -0.04 | 0.01 | 0.099 | 0.186 | 0.768 | 1 | | | |
| 41. EI under Perf | -0.27 | -0.298 | 0.002 | -0.032 | -0.023 | 0.032 | 0.207 | 0.253 | 1 | | |
| 42. EI under H | -0.258 | -0.318 | 0.125 | 0.151 | 0.15 | -0.114 | 0.142 | 0.188 | 0.375 | 1 | |
| 43. EI under Reas | -0.142 | -0.261 | 0.169 | 0.138 | 0.123 | -0.089 | 0.087 | 0.116 | 0.339 | 0.429 | 1 |
| Mean | 1.8936 | 1.8614 | 3.2952 | 3.4036 | 3.5462 | 3.6566 | 4.5783 | 4.6145 | 0.6787 | 0.5241 | 0.5663 |
| S.D. | 0.7331 | 0.9857 | 0.9536 | 0.9177 | 0.8442 | 0.8382 | 1.6077 | 1.5162 | 0.3068 | 0.337 | 0.3292 |

Sattora-Bentler scaled Chi-square = 1324.564, Df = 2519, p =.00, CFI=.999, RMASE =.06 (CI= .053-.065).

Cronbach's alpha (for the variables included in the model) = .83

Reliability coefficient Rho = .91

STANDARDIZED SOLUTION:

R-SQUARED

| | | | |
|-----------------|-----------|-------------|------|
| EIunder1 =V4 = | .706 F35 | + .708 E4 | .498 |
| EIunder2 =V5 = | .764*F35 | + .646 E5 | .583 |
| EIunder3 =V6 = | .847*F35 | + .532 E6 | .717 |
| PaperFold =V7 = | .548*F11 | + .836 E7 | .300 |
| Perscoord =V8 = | .381 F11 | + .925 E8 | .145 |
| NumAnal =V11 = | .449*F12 | + .894 E11 | .202 |
| NumSer =V12 = | .648 F12 | + .762 E12 | .419 |
| Exper1 =V13 = | .442*F13 | + .897 E13 | .195 |
| Exper2 =V14 = | .527 F13 | + .850 E14 | .278 |
| Social1 =V18 = | .826*F14 | + .564 E18 | .682 |
| Social2 =V19 = | .625 F14 | + .781 E19 | .390 |
| SR-MATH1 =V20= | .791*F21 | + .612 E20 | .626 |
| SR-MATH2 =V21= | .833 F21 | + .553 E21 | .694 |
| SR-EXP1 =V22 = | .727*F22 | + .687 E22 | .528 |
| SR-EXP2 =V23 = | .703 F22 | + .711 E23 | .495 |
| SR-SOC1 =V24 = | .686*F23 | + .727 E24 | .471 |
| SR-SOC2 =V25 = | .666 F23 | + .746 E25 | .443 |
| SR-MEM =V26 = | .748*F24 | + .663 E26 | .560 |
| SR-SPEED =V28= | .605 F24 | + .796 E28 | .366 |
| F2ACHIE =V33 = | .746*F41 | + .666 E33 | .557 |
| F2ORG =V34 = | .860 F41 | + .510 E34 | .740 |
| F1EMO =V35 = | .547*F42 | + .837 E35 | .300 |
| F1EGO =V36 = | .999 F42 | + .033 E36 | .999 |
| F5PROS =V37 = | .622 F43 | + .783 E37 | .387 |
| F5EXT =V39 = | .769*F43 | + .640 E39 | .591 |
| F4HELP =V40 = | .710 F44 | + .704 E40 | .504 |
| F4AGR =V41 = | .927*F44 | + .376 E41 | .859 |
| F4SENS =V42 = | .314*F44 | + .949 E42 | .099 |
| F3INTE =V43 = | .875 F45 | + .484 E43 | .766 |
| F3OPEN =V44 = | .490*F45 | + .872 E44 | .240 |
| EI_CC1 =V52 = | .733*F31 | + .680 E52 | .537 |
| EI_GOC2 =V53 = | .847 F31 | + .532 E53 | .717 |
| EICOOL1 =V54 = | .999*F32 | + .043 E54 | .998 |
| EICOOL2 =V55 = | .534 F32 | + .846 E55 | .285 |
| EISOKN2 =V56 = | .743*F33 | + .670 E56 | .551 |
| EISOKN2 =V57 = | .808 F33 | + .589 E57 | .653 |
| EICONS1 =V58 = | .704*F34 | + .710 E58 | .496 |
| EICONS2 =V59 = | .600 F34 | + .800 E59 | .360 |
| LANG =V72 = | .796*F60 | + .605 E72 | .634 |
| MATHS =V79 = | .966 F60 | + .260 E79 | .933 |
| EI_UN_P=V112= | .544 F36 | + .839 E112 | .296 |
| EI_UN_H=V113= | .689*F36 | + .725 E113 | .474 |
| EI_UN_R=V114= | .622*F36 | + .783 E114 | .387 |
| GF =F10 = | .270*F50 | + .963 D10 | .073 |
| SPACE =F11 = | .994 F10 | + .110 D11 | .988 |
| QUANT =F12 = | .781*F10 | + .625 D12 | .610 |
| EXPER =F13 = | .994*F10 | + .112 D13 | .988 |
| SOC =F14 = | .809*F10 | + .588 D14 | .654 |
| GCOGN =F20 = | .646*F50 | + .763 D20 | .418 |
| SRQUANT =F21 = | .562 F20 | + .827 D21 | .315 |
| SREXP =F22 = | .998*F20 | + .060 D22 | .996 |
| SRSOC =F23 = | .998*F20 | + .067 D23 | .995 |
| SREFF =F24 = | .741*F20 | + .672 D24 | .548 |
| EI =F30 = | .998 F50 | + .063 D30 | .996 |
| EICOG =F31 = | .793 F30 | + .610 D31 | .628 |
| EISCTR =F32 = | -.194*F30 | + .981 D32 | .038 |
| EISOC =F33 = | .743*F30 | + .670 D33 | .551 |

Note: Symbols as above unless otherwise stated. EI=emotional intelligence; under=understanding; paperfold=paper folding; perscoord=coordination of perspectives; SR=self-representation. Sctr=self-control; cons=reconstruction of emotions; GCogn=General factor of cognizance; vis mem=visual memory; know=knoing emotions; ach, open, sensit, intel stand for facets of Big Five factors.

Table 6. Structural relations between school performance and cognitive, cognizance, and personality processes and across studies.

| Study | Study 1: executive, reasoning, awareness of mental states. 4-10 years | | Study 2: executive, reasoning, self- evaluation processes. 8-15 years | | Study 3: reasoning, self- evaluation, self- representation. 10-15 years | | Study 4: reasoning, self- representation, personality. 10-18 years | | Study 5: reasoning, self- representation, personality, emotional intelligence 10-16 years | |
|-------------------------------|--|------------------|--|------------------|---|------------------|--|------------------|---|------------------|
| Model/ Process | Process- specific models | All processes | Process- specific models | All processes | Process- specific models | All processes | Process- specific models | All processes | Process- specific models | All processes |
| g | | .75* | | .27* | | .22* | | .15 | | .17 |
| Executive | | | | | | | | | | |
| Ge | .62* | | .21* | .01 | | | | | | |
| Attention | .78* | | .00 | | | | | | | |
| WM | .00 | .00 | .31* | | | | | | | |
| Flexibility | -- | | .26 | | | | | | | |
| R ² | 1.0 | | .21 | | | | | | | |
| CFI | 1.00 | | .95 | | | | | | | |
| Reasoning | | | | | | | | | | |
| Gf | .88* | .41* | .34* | .52* | .59* | .67* | .50* | .52* | .43* | .44* |
| Quantitative | | | .32* | | | | .23* | .15 | | .40* |
| Deductive- analogical | | | .35* | | | | .25 | .11 | | |
| Causal | | | | | | | .17 | | | |
| Social | | | | | .24* | | | | | |
| R ² | .77 | | .34 | | .41 | | .40 | | .33 | |
| CFI | 1.00 | | .98 | | .96 | | .98 | | .96 | |
| Language | | | .55* | .71* | | | | | | |
| R ² | | | .30 | | | | | | | |
| CFI | | | .96 | | | | | | | |
| Cognizance | | | | | | | | | | |
| Gcogn | .54* | | .27* | .07 | | | | | | |
| ACP | .84* | .52* | | | | | | | | |
| R ² | 1.0 | | .10 | | | | | | | |
| CFI | 1.00 | | | | | | | | | |
| Gcogn | | | | | .25* | .22* | | .00 | | |
| Gf | | | | | -.24 | .02 | .11* | | .22* | .10 |
| Ge | | | | | .21* | .27* | | | | |
| Mathematics | | | | | | | .49* | .20* | .45* | .40* |
| Deductive | | | | | | | .18* | .25* | | |
| Eff/Speed | | | | | | | | -.20* | -.34* | |
| Pre-perform self- evaluat. | | | | | .31* | .31* | | | | |
| Post-perform self-evaluat. | | | | | -.14 | .14* | | | | |
| R ² | | | | | .32 | | .28 | | .37 | |
| CFI | | | | | .87 | | .98 | | | |

| | | | | | | | |
|---------------------------|------------|------------|------------|------------|------|------------|------------|
| GFP | | | | -.19 | -.14 | .33* | .18 |
| Agreeableness | | | | .14 | | | |
| Openness | | | | .42* | .07 | | -.03 |
| Conscientious. | | | | .35* | .28* | .24 | .31* |
| Neuroticism | | | | | | -.22* | |
| R ² | | | | .36 | | .22 | |
| CFI | | | | .92 | | .90 | |
| Emotional intelligence | | | | | | .15 | |
| Understanding emotions | | | | | | .25* | |
| Reconstruct emotions | | | | | | .29* | |
| R ² | | | | | | .17 | |
| CFI | | | | | | .91 | |
| Total R ² | .99 | .85 | .68 | .54 | | | .52 |
| CFI | 1.00 | 1.00 | .87 | .99 | | | 1.00 |

Note: Two sets of models were fit in each study. In the first, academic performance was regressed separately on each of the three types of processes. In the second, all three types of processes were involved in the same model. Asterisk indicates significant relations. Variance accounted for is shown in bold. g: general factor; Ge: general executive factor; Gf: fluid cognition; Gcogn: general cognizance factor; GFP: General Factor of Personality; CFI is Comparative Fit Index.