Appendix for supplemental materials

Table 4

Gender-differences in intra-individual correlations between anxiety and positive affect in Mathematics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | *N* | *Mean* | *SD* | *t-Test for gender differences* |
| *Correlation between anxiety and…* |  |  |  |  | *p-value* | *d* |
| *Positive Affect / Intrinsic Motivation* |
| … enjoyment in Maths | female | 66 | 0.01 | 0.442 | .877 | -.03 |
| male | 42 | 0.02 | 0.347 |
| … Concentration in Maths | female | 35 | 0.01 | 0.252 | .925 | -.02 |
| male | 27 | 0.01 | 0.206 |
| … Active in Maths | female | 66 | 0.01 | 0.541 | .615 | -.09 |
| male | 41 | 0.06 | 0.334 |
| … Energetic in Maths | female | 55 | -0.04 | 0.495 | .007 | -.60 |
| male | 31 | 0.25 | 0.423 |
| … Excited in Maths | female | 35 | 0.01 | 0.276 | .171 | -0.36 |
| male | 27 | 0.11 | 0.288 |
| … Successful in Maths | female | 66 | -0.12 | 0.435 | .157 | -0.28 |
| male | 40 | 0.02 | 0.512 |
| … Competent in Maths | female | 55 | -0.11 | 0.494 | .961 | -0.01 |
| male | 32 | -0.10 | 0.430 |
| … Confident in Maths | female | 66 | -0.06 | 0.629 | .209 | -0.25 |
| male | 42 | 0.08 | 0.364 |
| *Negative Affect / Avoidance Motivation* |
| …Want to give up in Maths | female | 35 | 0.08 | 0.256 | .071 | .48 |
| male | 26 | -0.02 | 0.153 |
| …Confused in Maths | female | 65 | 0.29 | 0.737 | .154 | .28 |
| male | 41 | 0.13 | 0.405 |
| …Stressed in Maths | female | 65 | 0.40 | 0.840 | .013 | .51 |
| male | 40 | 0.09 | 0.394 |

Note. The t-test for gender differences was two-tailed. Convention for interpreting Cohen’s d: small: d = .2, medium: d = .5, large: d = .8. The subject-specific tests include only individuals with at least 3 valid ESM responses in the respective subject.

Table 5

Gender-differences in intra-individual correlations between anxiety and positive affect in Biology

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | *N* | *Mean* | *SD* | *t-Test for gender differences* |
| *Correlation between anxiety and…* |  |  |  |  | *p-value* | *d* |
| *Positive Affect / Intrinsic Motivation* |
| … enjoyment in Biology | female | 67 | -0.12 | 0.448 | .249 | -.23 |
| male | 41 | -0.02 | 0.420 |
| … Concentration in Biology | female | 43 | 0.12 | 0.406 | .507 | -.15 |
| male | 35 | 0.18 | 0.361 |
| … Active in Biology | female | 57 | -0.05 | 0.467 | .247 | -.24 |
| male | 40 | 0.06 | 0.452 |
| … Energetic in Biology | female | 26 | -0.13 | 0.354 | .232 | -.41 |
| male | 12 | 0.03 | 0.478 |
| … Excited in Biology | female | 39 | -0.01 | 0.477 | .224 | -.30 |
| male | 32 | 0.13 | 0.432 |
| … Successful in Biology | female | 65 | -0.21 | 0.428 | .105 | -.32 |
| male | 42 | -0.08 | 0.402 |
| … Competent in Biology | female | 22 | -0.24 | 0.399 | .017 | -.96 |
| male | 8 | 0.20 | 0.476 |
| … Confident in Biology | female | 62 | -0.13 | 0.455 | .106 | -.32 |
| male | 41 | 0.02 | 0.471 |
| *Negative Affect / Avoidance Motivation* |
| Want to give up in Biology | female | 37 | 0.08 | 0.474 | .582 | .14 |
| male | 29 | 0.03 | 0.282 |
| Confused in Biology | female | 63 | 0.23 | 0.426 | .497 | .14 |
| male | 38 | 0.17 | 0.405 |
| Stressed in Biology | female | 58 | 0.34 | 0.424 | .027 | .47 |
| male | 37 | 0.15 | 0.387 |

Note. The t-test for gender differences was two-tailed. Convention for interpreting Cohen’s d: small: d = .2, medium: d = .5, large: d = .8. The subject-specific tests include only individuals with at least 3 valid ESM responses in the respective subject.

Table 6

Gender-differences in intra-individual correlations between anxiety and positive affect in Physics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | *N* | *Mean* | *SD* | *t-Test for gender differences* |
| *Correlation between anxiety and…* |  |  |  |  | *p-value* | *d* |
| *Positive Affect / Intrinsic Motivation* |
| … enjoyment in Physics | female | 40 | -0.09 | 0.440 | .244 | -.27 |
| male | 35 | 0.03 | 0.389 |
| … Concentration in Physics | female | 9 | 0.01 | 0.334 | .935 | -.03 |
| male | 21 | 0.02 | 0.341 |
| … Active in Physics | female | 36 | 0.02 | 0.423 | .161 | -.34 |
| male | 34 | 0.17 | 0.443 |
| … Energetic in Physics | female | 32 | 0.02 | 0.480 | .900 | -.04 |
| male | 17 | 0.04 | 0.433 |
| … Excited in Physics | female | 9 | 0.09 | 0.280 | .507 | -.25 |
| male | 22 | 0.19 | 0.414 |
| … Successful in Physics | female | 35 | -0.05 | 0.368 | .682 | -.10 |
| male | 36 | -0.02 | 0.368 |
| … Competent in Physics | female | 25 | -0.07 | 0.454 | .626 | -.16 |
| male | 16 | -0.01 | 0.409 |
| … Confident in Physics | female | 38 | -0.08 | 0.472 | .083 | -.41 |
| male | 36 | 0.10 | 0.412 |
| *Negative Affect / Avoidance Motivation* |
| Want to give up in Physics | female | 8 | 0.40 | 0.348 | .034 | .97 |
| male | 16 | 0.03 | 0.388 |
| Confused in Physics | female | 35 | 0.34 | 0.345 | .076 | .45 |
| male | 32 | 0.17 | 0.410 |
| Stressed in Physics | female | 37 | 0.39 | 0.404 | .012 | .62 |
| male | 33 | 0.12 | 0.464 |

Note. The t-test for gender differences was two-tailed. Convention for interpreting Cohen’s d: small: d = .2, medium: d = .5, large: d = .8. The subject-specific tests include only individuals with at least 3 valid ESM responses in the respective subject.