**Table 2**

*Deconstructed associations between gender-equality and boys’ and girls’ science attitudes from multi-level models*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Science self-efficacy | | Interest in Science | | Enjoyment of science | |
|  | Est. | *p* | Est. | *p* | Est. | *p* |
| *rx,Y1-Y2* | .68 | <.001 | .44 | .002 | .42 | <.001 |
| *q* | 0.46 |  | 0.16 |  | 0.20 |  |
| *q*b | 0.47 |  | 0.16 |  | 0.27 |  |
|  |  |  |  |  |  |  |
| *SD*Y1 | 0.19 |  | 0.22 |  | 0.23 |  |
| *SD*Y2 | 0.22 |  | 0.24 |  | 0.30 |  |
| Difference |  | .028 |  | .166 |  | <.001 |
| VR | 0.71 |  | 0.87 |  | 0.59 |  |
|  |  |  |  |  |  |  |
| *rY1,Y2* | .79 |  | .94 |  | .85 |  |
| *SD*Y1–Y2 | 0.14 |  | 0.08 |  | 0.16 |  |
|  |  |  |  |  |  |  |
| *rx,Y1* | .15 |  | .07 |  | -.19 |  |
| b11 | 0.13 | .275 | 0.07 | .648 | -0.16 | .155 |
| *rx,Y2* | -.30 |  | -.09 |  | -.37 |  |
| b21 | -0.32 | .022 | -0.09 | .565 | -0.41 | .004 |
|  |  |  |  |  |  |  |
| Cross-over point | .073 |  | <.001 |  | .209 |  |
| Y1–Y2 reliability | .95 |  | .92 |  | .97 |  |
| Type | B |  | D |  | B |  |

*Note.* All estimates derived with multi-level model estimates. See Table S1 for corresponding results from country-level path model. X = Global Gender Gap Index. Y1 = Boys’ mean-level. Y2 = Girls’ mean-level. *rX,Y1–Y2* = Difference score correlation. *q* = Cohen’s *q* calculated from transformed *rX,Y1* and *rX,Y2*. *q*b = Cohen’s *q* calculated from transformed *b11* and *b21*. VR = Variance ratio. *rY1,Y2* = correlation between boys’ and girls’ mean-levels across countries.

**Table S1**

*Deconstructed associations between gender-equality (GGGI) and boys’ and girls’ science attitudes from country-level path models*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Science self-efficacy | | Interest in Science | | Enjoyment of science | |
|  | Est. | *p* | Est. | *p* | Est. | *p* |
| *rx,Y1-Y2* | .65 | <.001 | .42 | <.001 | .42 | <.001 |
| *q* | 0.45 |  | 0.15 |  | 0.19 |  |
| *q*b | 0.46 |  | 0.15 |  | 0.27 |  |
|  |  |  |  |  |  |  |
| *SD*Y1 | 0.19 |  | 0.22 |  | 0.23 |  |
| *SD*Y2 | 0.23 |  | 0.24 |  | 0.30 |  |
| Difference |  | .100 |  | .072 |  | .001 |
| VR | 0.72 |  | 0.84 |  | 0.59 |  |
|  |  |  |  |  |  |  |
| *rY1,Y2* | .78 |  | .94 |  | .86 |  |
| *SD*Y1–Y2 | 0.14 |  | 0.08 |  | 0.16 |  |
|  |  |  |  |  |  |  |
| *rx,Y1* | .14 |  | .07 |  | -.18 |  |
| b11 | 0.13 | .325 | 0.06 | .568 | -0.16 | .108 |
| *rx,Y2* | -.29 |  | -.08 |  | -.36 |  |
| b21 | -0.32 | .030 | -0.09 | .488 | -0.41 | <.001 |
|  |  |  |  |  |  |  |
| Cross-over point | .074 |  | <.001 |  | .211 |  |
| Y1–Y2 reliability | - |  | - |  | - |  |
| Type | B |  | D |  | B |  |

*Note.* All estimates derived with country-level path models. See Table 2 for corresponding results from multi-level models. X = Global Gender Gap Index. Y1 = Boys’ mean-level. Y2 = Girls’ mean-level. *rX,Y1–Y2* = Difference score correlation. *q* = Cohen’s *q* calculated from transformed *rX,Y1* and *rX,Y2*. *q*b = Cohen’s *q* calculated from transformed *b11* and *b21*. VR = Variance ratio. *rY1,Y2* = correlation between boys’ and girls’ mean-levels across countries.