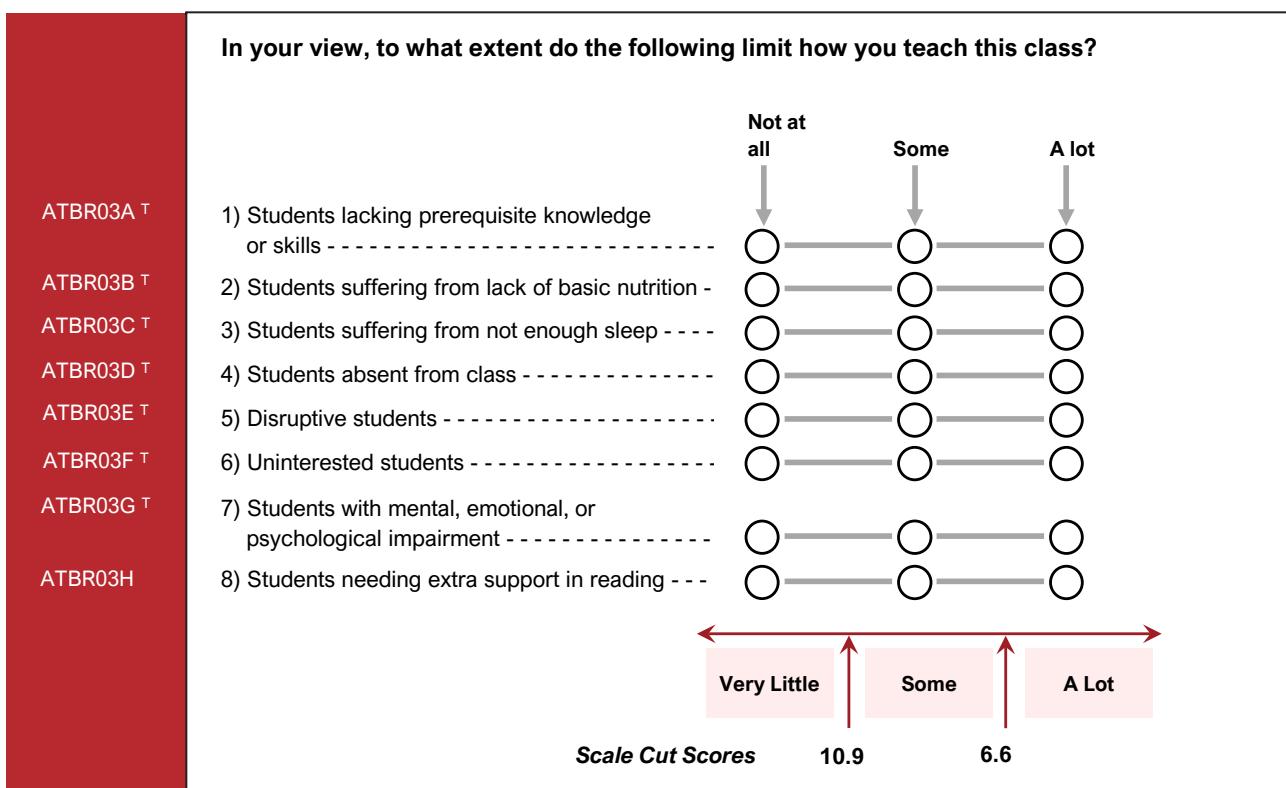


Appendix 15C: PIRLS 2021 Context Questionnaire Scales Based on Teachers' Reports

Classroom Teaching Limited by Student Not Ready for Instruction

About the Scale

Students were scored according to their teachers' reports regarding eight student attributes on the *Classroom Teaching Limited by Students Not Ready for Instruction* scale. Cut scores divide the scale into three categories. Students with teachers who felt their teaching was limited **Very Little** had a score at or above the cut score corresponding to their teachers reporting they were "not at all" limited by four of the eight student attributes and were limited "some" by the other four, on average. Students with teachers who felt their teaching was limited **A Lot** had a score at or below the cut score corresponding to their teachers reporting they were limited "a lot" by four of the eight attributes and were limited "some" by the other four, on average. All other students had teachers who felt their teaching was limited **Some**.



^T Trend item—item was included in the same scale in PIRLS 2016 and was used for linking the PIRLS 2016 and PIRLS 2021 scales.

Item Parameters for the PIRLS 2021 Classroom Teaching Limited by Student Not Ready for Instruction Scale

| Item | delta | tau_1 | tau_2 | Infit | Q-Index |
|---------|----------|----------|---------|-------|---------|
| ATBR03A | 0.77764 | -1.81297 | 1.81297 | 1.00 | 0.13 |
| ATBR03B | -1.35648 | -0.80680 | 0.80680 | 1.08 | 0.12 |
| ATBR03C | -0.41070 | -1.50709 | 1.50709 | 0.96 | 0.11 |
| ATBR03D | -0.09823 | -1.25947 | 1.25947 | 1.01 | 0.12 |
| ATBR03E | 0.11314 | -1.30257 | 1.30257 | 1.01 | 0.12 |
| ATBR03F | 0.43837 | -1.76165 | 1.76165 | 0.88 | 0.09 |
| ATBR03G | -0.26713 | -1.39159 | 1.39159 | 1.04 | 0.12 |
| ATBR03H | 0.80339 | -1.78839 | 1.78839 | 1.07 | 0.14 |

Scale Transformation Constants for the PIRLS 2021 Classroom Teaching Limited by Student Not Ready for Instruction Scale

Scale Transformation Constants

A = 8.721039

B = 1.358071

Transformed Scale Score = 8.721039 + 1.358071 • Logit Scale Score

Equivalence Table of the Raw Score and Transformed Scale Scores for the PIRLS 2021 Classroom Teaching Limited by Student Not Ready for Instruction Scale

| Raw Score | Transformed Scale Score | Cutpoint |
|-----------|-------------------------|----------|
| 0 | 2.79550 | |
| 1 | 4.44897 | |
| 2 | 5.31576 | |
| 3 | 5.96314 | |
| 4 | 6.51654 | 6.6 |
| 5 | 7.02686 | |
| 6 | 7.52318 | |
| 7 | 8.02670 | |
| 8 | 8.54995 | |
| 9 | 9.10220 | |
| 10 | 9.68037 | |
| 11 | 10.27928 | |
| 12 | 10.90415 | 10.9 |
| 13 | 11.57611 | |
| 14 | 12.34223 | |
| 15 | 13.32137 | |
| 16 | 15.07968 | |

**Cronbach's Alpha Reliability Coefficient and Principal Components Analysis of the Items in the
PIRLS 2021 Classroom Teaching Limited by Student Not Ready for Instruction Scale**

| Country | Cronbach's Alpha Reliability Coefficient | Percent of Variance Explained | Component Loadings for Each Item | | | | | | | |
|-----------------------|--|-------------------------------|----------------------------------|---------|---------|---------|---------|---------|---------|---------|
| | | | ATBR03A | ATBR03B | ATBR03C | ATBR03D | ATBR03E | ATBR03F | ATBR03G | ATBR03H |
| Albania | 0.82 | 45 | 0.48 | 0.69 | 0.72 | 0.65 | 0.53 | 0.75 | 0.81 | 0.65 |
| Australia | 0.82 | 44 | 0.70 | 0.69 | 0.70 | 0.60 | 0.73 | 0.67 | 0.65 | 0.53 |
| Austria | 0.76 | 38 | 0.62 | 0.48 | 0.72 | 0.68 | 0.58 | 0.69 | 0.61 | 0.49 |
| Azerbaijan | 0.83 | 46 | 0.58 | 0.59 | 0.71 | 0.73 | 0.71 | 0.71 | 0.79 | 0.56 |
| Bahrain | 0.79 | 41 | 0.64 | 0.54 | 0.68 | 0.56 | 0.63 | 0.80 | 0.58 | 0.65 |
| Belgium (Flemish) | 0.74 | 36 | 0.55 | 0.59 | 0.69 | 0.65 | 0.60 | 0.55 | 0.62 | 0.54 |
| Belgium (French) | 0.73 | 35 | 0.70 | 0.47 | 0.64 | 0.58 | 0.52 | 0.68 | 0.60 | 0.52 |
| Brazil | 0.81 | 43 | 0.61 | 0.75 | 0.74 | 0.74 | 0.51 | 0.81 | 0.56 | 0.46 |
| Bulgaria | 0.85 | 49 | 0.82 | 0.50 | 0.56 | 0.73 | 0.66 | 0.84 | 0.76 | 0.67 |
| Chinese Taipei | 0.65 | 30 | 0.59 | 0.51 | 0.53 | 0.33 | 0.50 | 0.62 | 0.51 | 0.68 |
| Croatia | 0.75 | 37 | 0.52 | 0.60 | 0.61 | 0.61 | 0.59 | 0.67 | 0.60 | 0.64 |
| Cyprus | 0.82 | 45 | 0.64 | 0.65 | 0.73 | 0.68 | 0.66 | 0.71 | 0.73 | 0.54 |
| Czech Republic | 0.67 | 31 | 0.70 | 0.09 | 0.47 | 0.51 | 0.60 | 0.69 | 0.44 | 0.67 |
| Denmark | 0.79 | 41 | 0.68 | 0.49 | 0.61 | 0.62 | 0.76 | 0.75 | 0.58 | 0.59 |
| Egypt | 0.75 | 37 | 0.64 | 0.61 | 0.59 | 0.45 | 0.73 | 0.74 | 0.56 | 0.47 |
| England | 0.85 | 49 | 0.69 | 0.72 | 0.71 | 0.70 | 0.72 | 0.72 | 0.73 | 0.61 |
| Finland | 0.73 | 35 | 0.60 | 0.49 | 0.70 | 0.48 | 0.58 | 0.60 | 0.68 | 0.60 |
| France | 0.71 | 35 | 0.54 | 0.61 | 0.68 | 0.66 | 0.64 | 0.68 | 0.51 | 0.29 |
| Georgia | 0.85 | 49 | 0.64 | 0.68 | 0.70 | 0.73 | 0.72 | 0.77 | 0.78 | 0.56 |
| Germany | 0.73 | 36 | 0.68 | 0.45 | 0.59 | 0.54 | 0.60 | 0.67 | 0.67 | 0.54 |
| Hong Kong SAR | 0.79 | 41 | 0.54 | 0.51 | 0.60 | 0.62 | 0.70 | 0.63 | 0.74 | 0.74 |
| Hungary | – | – | – | – | – | – | – | – | – | – |
| Iran, Islamic Rep. of | 0.82 | 44 | 0.63 | 0.68 | 0.63 | 0.63 | 0.74 | 0.70 | 0.76 | 0.53 |
| Ireland | – | – | – | – | – | – | – | – | – | – |
| Israel | 0.85 | 48 | 0.69 | 0.63 | 0.77 | 0.71 | 0.67 | 0.75 | 0.75 | 0.56 |
| Italy | 0.81 | 43 | 0.69 | 0.64 | 0.73 | 0.73 | 0.78 | 0.67 | 0.53 | 0.41 |
| Jordan | 0.74 | 36 | 0.54 | 0.64 | 0.51 | 0.69 | 0.71 | 0.66 | 0.52 | 0.48 |
| Kazakhstan | 0.86 | 51 | 0.64 | 0.61 | 0.69 | 0.79 | 0.77 | 0.78 | 0.75 | 0.64 |
| Kosovo | 0.76 | 37 | 0.54 | 0.53 | 0.67 | 0.64 | 0.55 | 0.67 | 0.62 | 0.62 |
| Latvia | 0.75 | 37 | 0.54 | 0.63 | 0.65 | 0.64 | 0.59 | 0.66 | 0.55 | 0.56 |
| Lithuania | 0.80 | 43 | 0.60 | 0.65 | 0.71 | 0.62 | 0.72 | 0.71 | 0.69 | 0.50 |
| Macao SAR | 0.85 | 49 | 0.60 | 0.66 | 0.73 | 0.74 | 0.72 | 0.74 | 0.78 | 0.60 |
| Malta | 0.85 | 50 | 0.66 | 0.66 | 0.74 | 0.73 | 0.70 | 0.74 | 0.79 | 0.60 |
| Montenegro | 0.78 | 40 | 0.47 | 0.59 | 0.60 | 0.68 | 0.68 | 0.69 | 0.69 | 0.60 |
| Morocco | 0.65 | 31 | 0.58 | 0.63 | 0.46 | 0.64 | 0.70 | 0.66 | 0.35 | 0.25 |
| Netherlands | 0.79 | 42 | 0.66 | 0.66 | 0.72 | 0.60 | 0.67 | 0.78 | 0.57 | 0.45 |
| New Zealand | 0.80 | 41 | 0.54 | 0.70 | 0.68 | 0.64 | 0.63 | 0.67 | 0.69 | 0.56 |
| North Macedonia | 0.78 | 40 | 0.65 | 0.56 | 0.60 | 0.72 | 0.60 | 0.72 | 0.55 | 0.61 |
| Northern Ireland | 0.76 | 39 | 0.56 | 0.59 | 0.69 | 0.65 | 0.60 | 0.80 | 0.65 | 0.34 |

**Cronbach's Alpha Reliability Coefficient and Principal Components Analysis of the Items in the
PIRLS 2021 Classroom Teaching Limited by Student Not Ready for Instruction Scale**

| Country | Cronbach's Alpha Reliability Coefficient | Percent of Variance Explained | Component Loadings for Each Item | | | | | | | |
|----------------------------------|--|-------------------------------|----------------------------------|---------|---------|---------|---------|---------|---------|---------|
| | | | ATBR03A | ATBR03B | ATBR03C | ATBR03D | ATBR03E | ATBR03F | ATBR03G | ATBR03H |
| Norway (5) | 0.76 | 38 | 0.67 | 0.47 | 0.72 | 0.49 | 0.62 | 0.73 | 0.62 | 0.54 |
| Oman | 0.81 | 42 | 0.50 | 0.59 | 0.67 | 0.67 | 0.72 | 0.71 | 0.68 | 0.58 |
| Poland | 0.73 | 34 | 0.64 | 0.29 | 0.61 | 0.53 | 0.59 | 0.72 | 0.62 | 0.60 |
| Portugal | 0.81 | 43 | 0.65 | 0.57 | 0.71 | 0.67 | 0.69 | 0.77 | 0.59 | 0.57 |
| Qatar | 0.83 | 45 | 0.68 | 0.65 | 0.72 | 0.66 | 0.69 | 0.76 | 0.59 | 0.63 |
| Russian Federation | 0.87 | 52 | 0.63 | 0.63 | 0.71 | 0.76 | 0.80 | 0.77 | 0.73 | 0.72 |
| Saudi Arabia | 0.85 | 49 | 0.69 | 0.71 | 0.65 | 0.69 | 0.64 | 0.79 | 0.74 | 0.70 |
| Serbia | 0.74 | 39 | 0.62 | 0.29 | 0.57 | 0.71 | 0.52 | 0.75 | 0.73 | 0.65 |
| Singapore | 0.83 | 47 | 0.65 | 0.65 | 0.71 | 0.76 | 0.62 | 0.64 | 0.71 | 0.71 |
| Slovak Republic | 0.77 | 39 | 0.70 | 0.45 | 0.59 | 0.69 | 0.49 | 0.70 | 0.60 | 0.71 |
| Slovenia | 0.78 | 40 | 0.62 | 0.61 | 0.67 | 0.58 | 0.67 | 0.76 | 0.67 | 0.43 |
| South Africa | 0.78 | 40 | 0.63 | 0.59 | 0.62 | 0.56 | 0.69 | 0.75 | 0.58 | 0.59 |
| Spain | 0.80 | 44 | 0.61 | 0.65 | 0.68 | 0.79 | 0.71 | 0.72 | 0.57 | 0.51 |
| Sweden | 0.69 | 32 | 0.61 | 0.40 | 0.58 | 0.54 | 0.67 | 0.57 | 0.50 | 0.63 |
| Turkiye | 0.84 | 47 | 0.68 | 0.69 | 0.67 | 0.65 | 0.67 | 0.74 | 0.64 | 0.74 |
| United Arab Emirates | 0.84 | 47 | 0.69 | 0.57 | 0.76 | 0.70 | 0.72 | 0.75 | 0.68 | 0.58 |
| United States | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Uzbekistan | 0.78 | 41 | 0.52 | 0.46 | 0.58 | 0.72 | 0.79 | 0.78 | 0.61 | 0.59 |
| Benchmarking Participants | | | | | | | | | | |
| Alberta, Canada | 0.76 | 38 | 0.63 | 0.77 | 0.71 | 0.53 | 0.53 | 0.40 | 0.72 | 0.59 |
| British Columbia, Canada | 0.84 | 48 | 0.66 | 0.69 | 0.74 | 0.72 | 0.69 | 0.69 | 0.72 | 0.64 |
| Newfoundland & Labrador, Can. | 0.83 | 46 | 0.72 | 0.72 | 0.68 | 0.54 | 0.69 | 0.55 | 0.80 | 0.66 |
| Quebec, Canada | 0.79 | 41 | 0.51 | 0.64 | 0.73 | 0.69 | 0.69 | 0.71 | 0.66 | 0.46 |
| Moscow City, Russian Fed. | 0.80 | 42 | 0.67 | 0.54 | 0.67 | 0.66 | 0.71 | 0.70 | 0.67 | 0.55 |
| South Africa (6) | 0.77 | 38 | 0.57 | 0.59 | 0.61 | 0.59 | 0.74 | 0.70 | 0.57 | 0.53 |
| Abu Dhabi, UAE | 0.81 | 43 | 0.61 | 0.51 | 0.75 | 0.67 | 0.74 | 0.74 | 0.63 | 0.58 |
| Dubai, UAE | 0.85 | 48 | 0.73 | 0.63 | 0.75 | 0.73 | 0.70 | 0.75 | 0.70 | 0.53 |

A dash (–) indicates comparable data not available.

Relationship Between the PIRLS 2021 Classroom Teaching Limited by Student Not Ready for Instruction Scale and PIRLS 2021 Achievement

| Country | Pearson's Correlation with Reading Achievement | | Variance in Reading Achievement Accounted for by Difference Between Regions of the Scale (η^2) |
|-----------------------|--|-------|---|
| | r | r^2 | |
| Albania | 0.05 | 0.00 | 0.01 |
| Australia | 0.20 | 0.04 | 0.03 |
| Austria | 0.18 | 0.03 | 0.03 |
| Azerbaijan | 0.00 | 0.00 | 0.00 |
| Bahrain | 0.24 | 0.06 | 0.05 |
| Belgium (Flemish) | 0.12 | 0.02 | 0.01 |
| Belgium (French) | 0.21 | 0.05 | 0.03 |
| Brazil | 0.22 | 0.05 | 0.03 |
| Bulgaria | 0.30 | 0.09 | 0.07 |
| Chinese Taipei | 0.10 | 0.01 | 0.01 |
| Croatia | 0.08 | 0.01 | 0.00 |
| Cyprus | 0.14 | 0.02 | 0.02 |
| Czech Republic | 0.12 | 0.02 | 0.01 |
| Denmark | 0.11 | 0.01 | 0.01 |
| Egypt | 0.08 | 0.01 | 0.01 |
| England | 0.14 | 0.02 | 0.01 |
| Finland | 0.19 | 0.04 | 0.03 |
| France | 0.19 | 0.03 | 0.02 |
| Georgia | 0.06 | 0.00 | 0.00 |
| Germany | 0.21 | 0.04 | 0.03 |
| Hong Kong SAR | 0.16 | 0.03 | 0.02 |
| Hungary | – | – | – |
| Iran, Islamic Rep. of | 0.15 | 0.02 | 0.03 |
| Ireland | – | – | – |
| Israel | 0.14 | 0.02 | 0.03 |
| Italy | 0.05 | 0.00 | 0.01 |
| Jordan | 0.02 | 0.00 | 0.00 |
| Kazakhstan | -0.09 | 0.01 | 0.02 |
| Kosovo | 0.07 | 0.00 | 0.01 |
| Latvia | 0.09 | 0.01 | 0.01 |
| Lithuania | 0.03 | 0.00 | 0.00 |
| Macao SAR | 0.07 | 0.00 | 0.01 |
| Malta | 0.19 | 0.04 | 0.03 |
| Montenegro | 0.09 | 0.01 | 0.00 |
| Morocco | 0.15 | 0.02 | 0.01 |
| Netherlands | 0.17 | 0.03 | 0.02 |
| New Zealand | 0.23 | 0.05 | 0.03 |
| North Macedonia | 0.08 | 0.01 | 0.00 |
| Northern Ireland | 0.19 | 0.04 | 0.03 |
| Norway (5) | 0.10 | 0.01 | 0.01 |

Relationship Between the PIRLS 2021 Classroom Teaching Limited by Student Not Ready for Instruction Scale and PIRLS 2021 Achievement

| Country | Pearson's Correlation with Reading Achievement | | Variance in Reading Achievement Accounted for by Difference Between Regions of the Scale (η^2) |
|----------------------------------|--|-------------|---|
| | r | r^2 | |
| Oman | 0.11 | 0.01 | 0.01 |
| Poland | 0.08 | 0.01 | 0.00 |
| Portugal | 0.16 | 0.02 | 0.02 |
| Qatar | 0.14 | 0.02 | 0.02 |
| Russian Federation | 0.06 | 0.00 | 0.00 |
| Saudi Arabia | 0.12 | 0.01 | 0.01 |
| Serbia | 0.11 | 0.01 | 0.01 |
| Singapore | 0.28 | 0.08 | 0.08 |
| Slovak Republic | 0.26 | 0.07 | 0.12 |
| Slovenia | 0.06 | 0.00 | 0.00 |
| South Africa | 0.14 | 0.02 | 0.01 |
| Spain | 0.17 | 0.03 | 0.02 |
| Sweden | 0.14 | 0.02 | 0.01 |
| Turkiye | 0.14 | 0.02 | 0.01 |
| United Arab Emirates | 0.24 | 0.06 | 0.04 |
| United States | – | – | – |
| Uzbekistan | 0.05 | 0.00 | 0.00 |
| International Median | 0.14 | 0.02 | 0.01 |
| Benchmarking Participants | | | |
| Alberta, Canada | 0.17 | 0.03 | 0.03 |
| British Columbia, Canada | 0.25 | 0.06 | 0.06 |
| Newfoundland & Labrador, Can. | 0.16 | 0.03 | 0.03 |
| Quebec, Canada | 0.09 | 0.01 | 0.01 |
| Moscow City, Russian Fed. | 0.05 | 0.00 | 0.00 |
| South Africa (6) | 0.14 | 0.02 | 0.02 |
| Abu Dhabi, UAE | 0.20 | 0.04 | 0.02 |
| Dubai, UAE | 0.15 | 0.02 | 0.02 |

A dash (–) indicates comparable data not available.

Safe and Orderly School

About the Scale¹

Students were scored according to their teachers' responses to nine statements on the *Safe and Orderly School* scale. Cut scores divide the scale into three categories. Students in **Very Safe and Orderly** schools had a score at or above the cut score corresponding to their teachers "agreeing a lot" with five of the nine statements and "agreeing a little" with the other four, on average. Students in **Less than Safe and Orderly** schools had a score at or below the cut score corresponding to their teachers "disagreeing a little" with five of the nine statements and "agreeing a little" with the other four, on average. All other students were in **Somewhat Safe and Orderly** schools.

| Thinking about your current school, indicate the extent to which you agree or disagree with each of the following statements. | | | | |
|---|---|--|---|---|
| ATBG11A T | Agree a lot <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> | Agree a little <input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> | Disagree a little <input type="radio"/> <input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> | Disagree a lot <input type="radio"/> <input type="radio"/> <input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> |
| ATBG11B T | 1) This school is located in a safe neighborhood - <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> | 2) I feel safe at this school - - - - - <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> | 3) This school's security policies and practices are sufficient - - - - - <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> | 4) The students behave in an orderly manner - - - - - <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> |
| ATBG11C T | 5) The students are respectful of the teachers - - - - - <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> | 6) The students respect school property - - - - - <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> | 7) This school has clear rules about student conduct - - - - - <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> | 8) This school's rules are enforced in a fair and consistent manner - - - - - <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> |
| ATBG11D T | 9) The students are respectful of each other - - - - - <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> | | | |
| ATBG11E T | | | | |
| ATBG11F T | | | | |
| ATBG11G T | | | | |
| ATBG11H T | | | | |
| ATBG11I | | | | |

Agree
a lot

Agree
a little

Disagree
a little

Disagree
a lot

Very Safe
and
Orderly Somewhat
Safe and
Orderly Less than Safe and
Orderly

Scale Cut Scores 10.4 6.5

¹ For the purpose of scaling, categories in which there were very few respondents were combined. The categories "Disagree a little" and "Disagree a lot" were combined for all variables. Scale statistics reflect analysis of the items following collapsing.

T Trend item—item was included in the same scale in PIRLS 2016 and was used for linking the PIRLS 2016 and PIRLS 2021 scales.

Item Parameters for the PIRLS 2021 Safe and Orderly School Scale

| Item | delta | tau_1 | tau_2 | Infit | Q-Index |
|---------|----------|----------|---------|-------|---------|
| ATBG11A | -0.63042 | -1.06582 | 1.06582 | 1.43 | 0.14 |
| ATBG11B | -1.61318 | -1.20178 | 1.20178 | 1.09 | 0.10 |
| ATBG11C | -0.75938 | -1.37217 | 1.37217 | 1.27 | 0.11 |
| ATBG11D | 0.83487 | -1.97679 | 1.97679 | 0.87 | 0.05 |
| ATBG11E | 0.35905 | -1.89383 | 1.89383 | 0.87 | 0.05 |
| ATBG11F | 1.18956 | -1.89270 | 1.89270 | 0.90 | 0.05 |
| ATBG11G | -0.59819 | -1.39472 | 1.39472 | 1.11 | 0.09 |
| ATBG11H | -0.02814 | -1.52653 | 1.52653 | 1.07 | 0.07 |
| ATBG11I | 1.24583 | -2.17160 | 2.17160 | 0.88 | 0.05 |

Scale Transformation Constants for the PIRLS 2021 Safe and Orderly School Scale

Scale Transformation Constants

A = 8.421107

B = 0.997188

Transformed Scale Score = 8.421107 + 0.997188 • Logit Scale Score

Equivalence Table of the Raw Score and Transformed Scale Scores for the PIRLS 2021 Safe and Orderly School Scale

| Raw Score | Transformed Scale Score | Cutpoint |
|-----------|-------------------------|----------|
| 0 | 3.67446 | |
| 1 | 4.91298 | |
| 2 | 5.56887 | |
| 3 | 6.05453 | |
| 4 | 6.46434 | 6.5 |
| 5 | 6.83434 | |
| 6 | 7.18418 | |
| 7 | 7.52665 | |
| 8 | 7.87142 | |
| 9 | 8.22671 | |
| 10 | 8.59932 | |
| 11 | 8.99685 | |
| 12 | 9.42597 | |
| 13 | 9.89419 | |
| 14 | 10.40627 | 10.4 |
| 15 | 10.96579 | |
| 16 | 11.59163 | |
| 17 | 12.35702 | |
| 18 | 13.68151 | |

**Cronbach's Alpha Reliability Coefficient and Principal Components Analysis of the Items in the
PIRLS 2021 Safe and Orderly School Scale**

| Country | Cronbach's Alpha Reliability Coefficient | Percent of Variance Explained | Component Loadings for Each Item | | | | | | | | |
|-----------------------|--|-------------------------------|----------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | | ATBG11A | ATBG11B | ATBG11C | ATBG11D | ATBG11E | ATBG11F | ATBG11G | ATBG11H | ATBG11I |
| Albania | 0.83 | 50 | 0.59 | 0.75 | 0.35 | 0.71 | 0.82 | 0.86 | 0.66 | 0.66 | 0.81 |
| Australia | 0.92 | 61 | 0.61 | 0.60 | 0.69 | 0.88 | 0.89 | 0.88 | 0.74 | 0.78 | 0.87 |
| Austria | 0.84 | 45 | 0.57 | 0.53 | 0.55 | 0.82 | 0.81 | 0.78 | 0.41 | 0.63 | 0.80 |
| Azerbaijan | 0.83 | 44 | 0.56 | 0.67 | 0.53 | 0.63 | 0.71 | 0.72 | 0.69 | 0.76 | 0.67 |
| Bahrain | 0.85 | 46 | 0.47 | 0.36 | 0.49 | 0.75 | 0.72 | 0.78 | 0.79 | 0.79 | 0.78 |
| Belgium (Flemish) | 0.87 | 50 | 0.46 | 0.48 | 0.59 | 0.84 | 0.82 | 0.77 | 0.73 | 0.76 | 0.81 |
| Belgium (French) | 0.87 | 50 | 0.67 | 0.60 | 0.66 | 0.77 | 0.77 | 0.76 | 0.67 | 0.73 | 0.74 |
| Brazil | 0.89 | 55 | 0.57 | 0.70 | 0.72 | 0.83 | 0.80 | 0.87 | 0.74 | 0.64 | 0.76 |
| Bulgaria | 0.83 | 44 | 0.48 | 0.63 | 0.64 | 0.76 | 0.77 | 0.77 | 0.54 | 0.56 | 0.73 |
| Chinese Taipei | 0.88 | 52 | 0.60 | 0.64 | 0.69 | 0.77 | 0.76 | 0.77 | 0.71 | 0.78 | 0.75 |
| Croatia | 0.91 | 58 | 0.68 | 0.74 | 0.77 | 0.79 | 0.82 | 0.78 | 0.76 | 0.80 | 0.74 |
| Cyprus | 0.90 | 55 | 0.56 | 0.68 | 0.72 | 0.85 | 0.84 | 0.76 | 0.70 | 0.75 | 0.76 |
| Czech Republic | 0.83 | 43 | 0.52 | 0.60 | 0.63 | 0.74 | 0.75 | 0.72 | 0.60 | 0.63 | 0.67 |
| Denmark | 0.90 | 55 | 0.61 | 0.51 | 0.62 | 0.84 | 0.83 | 0.81 | 0.74 | 0.82 | 0.82 |
| Egypt | 0.86 | 47 | 0.54 | 0.46 | 0.67 | 0.71 | 0.76 | 0.76 | 0.70 | 0.72 | 0.79 |
| England | 0.88 | 52 | 0.60 | 0.67 | 0.57 | 0.85 | 0.86 | 0.83 | 0.65 | 0.61 | 0.80 |
| Finland | 0.88 | 53 | 0.61 | 0.64 | 0.63 | 0.81 | 0.81 | 0.80 | 0.66 | 0.80 | 0.73 |
| France | 0.88 | 51 | 0.68 | 0.65 | 0.64 | 0.79 | 0.79 | 0.76 | 0.63 | 0.66 | 0.79 |
| Georgia | 0.78 | 38 | 0.28 | 0.25 | 0.57 | 0.72 | 0.77 | 0.70 | 0.56 | 0.70 | 0.76 |
| Germany | 0.84 | 46 | 0.65 | 0.53 | 0.57 | 0.77 | 0.75 | 0.78 | 0.57 | 0.65 | 0.75 |
| Hong Kong SAR | 0.89 | 53 | 0.50 | 0.58 | 0.57 | 0.79 | 0.83 | 0.81 | 0.78 | 0.78 | 0.83 |
| Hungary | — | — | — | — | — | — | — | — | — | — | — |
| Iran, Islamic Rep. of | 0.91 | 60 | 0.76 | 0.78 | 0.73 | 0.80 | 0.81 | 0.76 | 0.80 | 0.73 | 0.79 |
| Ireland | — | — | — | — | — | — | — | — | — | — | — |
| Israel | 0.86 | 49 | 0.31 | 0.46 | 0.38 | 0.84 | 0.88 | 0.79 | 0.77 | 0.78 | 0.81 |
| Italy | 0.85 | 47 | 0.51 | 0.63 | 0.62 | 0.77 | 0.77 | 0.79 | 0.62 | 0.65 | 0.73 |
| Jordan | 0.88 | 52 | 0.65 | 0.69 | 0.80 | 0.79 | 0.64 | 0.76 | 0.61 | 0.77 | 0.76 |
| Kazakhstan | 0.88 | 55 | 0.46 | 0.65 | 0.75 | 0.79 | 0.75 | 0.84 | 0.76 | 0.77 | 0.82 |
| Kosovo | 0.76 | 40 | 0.26 | 0.30 | 0.17 | 0.75 | 0.80 | 0.77 | 0.64 | 0.74 | 0.80 |
| Latvia | 0.79 | 38 | 0.42 | 0.38 | 0.50 | 0.68 | 0.73 | 0.81 | 0.56 | 0.62 | 0.71 |
| Lithuania | 0.88 | 51 | 0.40 | 0.67 | 0.72 | 0.76 | 0.79 | 0.80 | 0.73 | 0.69 | 0.81 |
| Macao SAR | 0.90 | 55 | 0.55 | 0.68 | 0.73 | 0.79 | 0.78 | 0.77 | 0.84 | 0.81 | 0.71 |
| Malta | 0.88 | 52 | 0.40 | 0.65 | 0.68 | 0.78 | 0.83 | 0.78 | 0.73 | 0.77 | 0.76 |
| Montenegro | 0.88 | 52 | 0.50 | 0.52 | 0.70 | 0.77 | 0.84 | 0.86 | 0.77 | 0.75 | 0.72 |
| Morocco | 0.79 | 48 | 0.68 | 0.69 | -0.32 | 0.76 | 0.71 | 0.79 | 0.65 | 0.71 | 0.81 |
| Netherlands | 0.89 | 54 | 0.59 | 0.55 | 0.72 | 0.85 | 0.84 | 0.77 | 0.68 | 0.74 | 0.82 |
| New Zealand | 0.89 | 53 | 0.57 | 0.66 | 0.67 | 0.80 | 0.83 | 0.77 | 0.67 | 0.73 | 0.82 |
| North Macedonia | 0.86 | 49 | 0.45 | 0.41 | 0.50 | 0.81 | 0.75 | 0.83 | 0.63 | 0.82 | 0.87 |
| Northern Ireland | 0.88 | 53 | 0.54 | 0.38 | 0.37 | 0.86 | 0.90 | 0.79 | 0.77 | 0.82 | 0.87 |

**Cronbach's Alpha Reliability Coefficient and Principal Components Analysis of the Items in the
PIRLS 2021 Safe and Orderly School Scale**

| Country | Cronbach's Alpha Reliability Coefficient | Percent of Variance Explained | Component Loadings for Each Item | | | | | | | | |
|----------------------------------|--|-------------------------------|----------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | | ATBG11A | ATBG11B | ATBG11C | ATBG11D | ATBG11E | ATBG11F | ATBG11G | ATBG11H | ATBG11I |
| Norway (5) | 0.88 | 50 | 0.45 | 0.48 | 0.54 | 0.84 | 0.86 | 0.86 | 0.66 | 0.72 | 0.81 |
| Oman | 0.85 | 46 | 0.52 | 0.62 | 0.61 | 0.76 | 0.72 | 0.72 | 0.67 | 0.70 | 0.72 |
| Poland | 0.85 | 46 | 0.50 | 0.61 | 0.63 | 0.77 | 0.77 | 0.71 | 0.68 | 0.74 | 0.66 |
| Portugal | 0.87 | 50 | 0.63 | 0.69 | 0.69 | 0.76 | 0.79 | 0.78 | 0.63 | 0.65 | 0.75 |
| Qatar | 0.91 | 59 | 0.40 | 0.59 | 0.67 | 0.85 | 0.85 | 0.87 | 0.82 | 0.85 | 0.86 |
| Russian Federation | 0.90 | 55 | 0.59 | 0.63 | 0.62 | 0.84 | 0.83 | 0.84 | 0.57 | 0.84 | 0.84 |
| Saudi Arabia | 0.89 | 55 | 0.57 | 0.61 | 0.82 | 0.72 | 0.78 | 0.80 | 0.79 | 0.80 | 0.76 |
| Serbia | 0.85 | 47 | 0.55 | 0.54 | 0.69 | 0.79 | 0.71 | 0.79 | 0.69 | 0.72 | 0.64 |
| Singapore | 0.90 | 56 | 0.47 | 0.63 | 0.64 | 0.84 | 0.87 | 0.85 | 0.75 | 0.80 | 0.82 |
| Slovak Republic | 0.87 | 49 | 0.49 | 0.62 | 0.64 | 0.76 | 0.81 | 0.80 | 0.68 | 0.71 | 0.74 |
| Slovenia | 0.86 | 47 | 0.65 | 0.69 | 0.72 | 0.76 | 0.75 | 0.69 | 0.65 | 0.68 | 0.60 |
| South Africa | 0.90 | 55 | 0.66 | 0.70 | 0.73 | 0.81 | 0.76 | 0.83 | 0.65 | 0.70 | 0.81 |
| Spain | 0.87 | 50 | 0.58 | 0.59 | 0.60 | 0.76 | 0.85 | 0.80 | 0.69 | 0.71 | 0.72 |
| Sweden | 0.89 | 55 | 0.64 | 0.66 | 0.73 | 0.83 | 0.87 | 0.77 | 0.64 | 0.77 | 0.72 |
| Turkiye | 0.92 | 60 | 0.75 | 0.75 | 0.81 | 0.81 | 0.75 | 0.82 | 0.72 | 0.75 | 0.81 |
| United Arab Emirates | 0.88 | 51 | 0.31 | 0.31 | 0.52 | 0.87 | 0.83 | 0.85 | 0.71 | 0.85 | 0.87 |
| United States | — | — | — | — | — | — | — | — | — | — | — |
| Uzbekistan | 0.84 | 46 | 0.57 | 0.65 | 0.68 | 0.59 | 0.76 | 0.72 | 0.55 | 0.77 | 0.77 |
| Benchmarking Participants | | | | | | | | | | | |
| Alberta, Canada | 0.87 | 50 | 0.53 | 0.61 | 0.65 | 0.78 | 0.78 | 0.81 | 0.69 | 0.67 | 0.78 |
| British Columbia, Canada | 0.90 | 56 | 0.58 | 0.68 | 0.63 | 0.76 | 0.85 | 0.84 | 0.79 | 0.77 | 0.79 |
| Newfoundland & Labrador, Can. | 0.89 | 54 | 0.60 | 0.64 | 0.65 | 0.79 | 0.90 | 0.88 | 0.65 | 0.69 | 0.76 |
| Quebec, Canada | 0.86 | 49 | 0.62 | 0.63 | 0.61 | 0.81 | 0.73 | 0.78 | 0.63 | 0.67 | 0.75 |
| Moscow City, Russian Fed. | 0.89 | 54 | 0.54 | 0.65 | 0.67 | 0.81 | 0.80 | 0.82 | 0.65 | 0.82 | 0.80 |
| South Africa (6) | 0.91 | 58 | 0.67 | 0.69 | 0.74 | 0.79 | 0.80 | 0.81 | 0.75 | 0.80 | 0.82 |
| Abu Dhabi, UAE | 0.88 | 52 | 0.38 | 0.32 | 0.56 | 0.88 | 0.83 | 0.87 | 0.67 | 0.84 | 0.88 |
| Dubai, UAE | 0.87 | 49 | 0.16 | 0.27 | 0.42 | 0.86 | 0.83 | 0.83 | 0.78 | 0.85 | 0.84 |

A dash (—) indicates comparable data not available.

Relationship Between the PIRLS 2021 *Safe and Orderly School* Scale and PIRLS 2021 Achievement

| Country | Pearson's Correlation with Reading Achievement | | Variance in Reading Achievement Accounted for by Difference Between Regions of the Scale (η^2) |
|-----------------------|--|-------|---|
| | r | r^2 | |
| Albania | 0.03 | 0.00 | 0.00 |
| Australia | 0.15 | 0.02 | 0.02 |
| Austria | 0.19 | 0.04 | 0.03 |
| Azerbaijan | 0.00 | 0.00 | 0.00 |
| Bahrain | 0.19 | 0.03 | 0.02 |
| Belgium (Flemish) | 0.12 | 0.02 | 0.02 |
| Belgium (French) | 0.17 | 0.03 | 0.01 |
| Brazil | 0.24 | 0.06 | 0.07 |
| Bulgaria | 0.13 | 0.02 | 0.02 |
| Chinese Taipei | -0.01 | 0.00 | 0.00 |
| Croatia | 0.04 | 0.00 | 0.00 |
| Cyprus | 0.11 | 0.01 | 0.01 |
| Czech Republic | 0.07 | 0.01 | 0.00 |
| Denmark | 0.09 | 0.01 | 0.01 |
| Egypt | 0.11 | 0.01 | 0.00 |
| England | 0.16 | 0.02 | 0.01 |
| Finland | 0.11 | 0.01 | 0.01 |
| France | 0.14 | 0.02 | 0.01 |
| Georgia | -0.01 | 0.00 | 0.00 |
| Germany | 0.18 | 0.03 | 0.02 |
| Hong Kong SAR | 0.15 | 0.02 | 0.01 |
| Hungary | – | – | – |
| Iran, Islamic Rep. of | 0.10 | 0.01 | 0.02 |
| Ireland | – | – | – |
| Israel | -0.10 | 0.01 | 0.01 |
| Italy | 0.05 | 0.00 | 0.00 |
| Jordan | 0.20 | 0.04 | 0.02 |
| Kazakhstan | -0.04 | 0.00 | 0.00 |
| Kosovo | 0.03 | 0.00 | 0.00 |
| Latvia | -0.01 | 0.00 | 0.00 |
| Lithuania | -0.06 | 0.00 | 0.00 |
| Macao SAR | 0.14 | 0.02 | 0.02 |
| Malta | 0.14 | 0.02 | 0.02 |
| Montenegro | -0.06 | 0.00 | 0.00 |
| Morocco | 0.18 | 0.03 | 0.03 |
| Netherlands | 0.13 | 0.02 | 0.01 |
| New Zealand | 0.17 | 0.03 | 0.02 |
| North Macedonia | 0.04 | 0.00 | 0.00 |
| Northern Ireland | 0.16 | 0.03 | 0.03 |
| Norway (5) | 0.07 | 0.00 | 0.00 |

Relationship Between the PIRLS 2021 *Safe and Orderly School* Scale and PIRLS 2021 Achievement

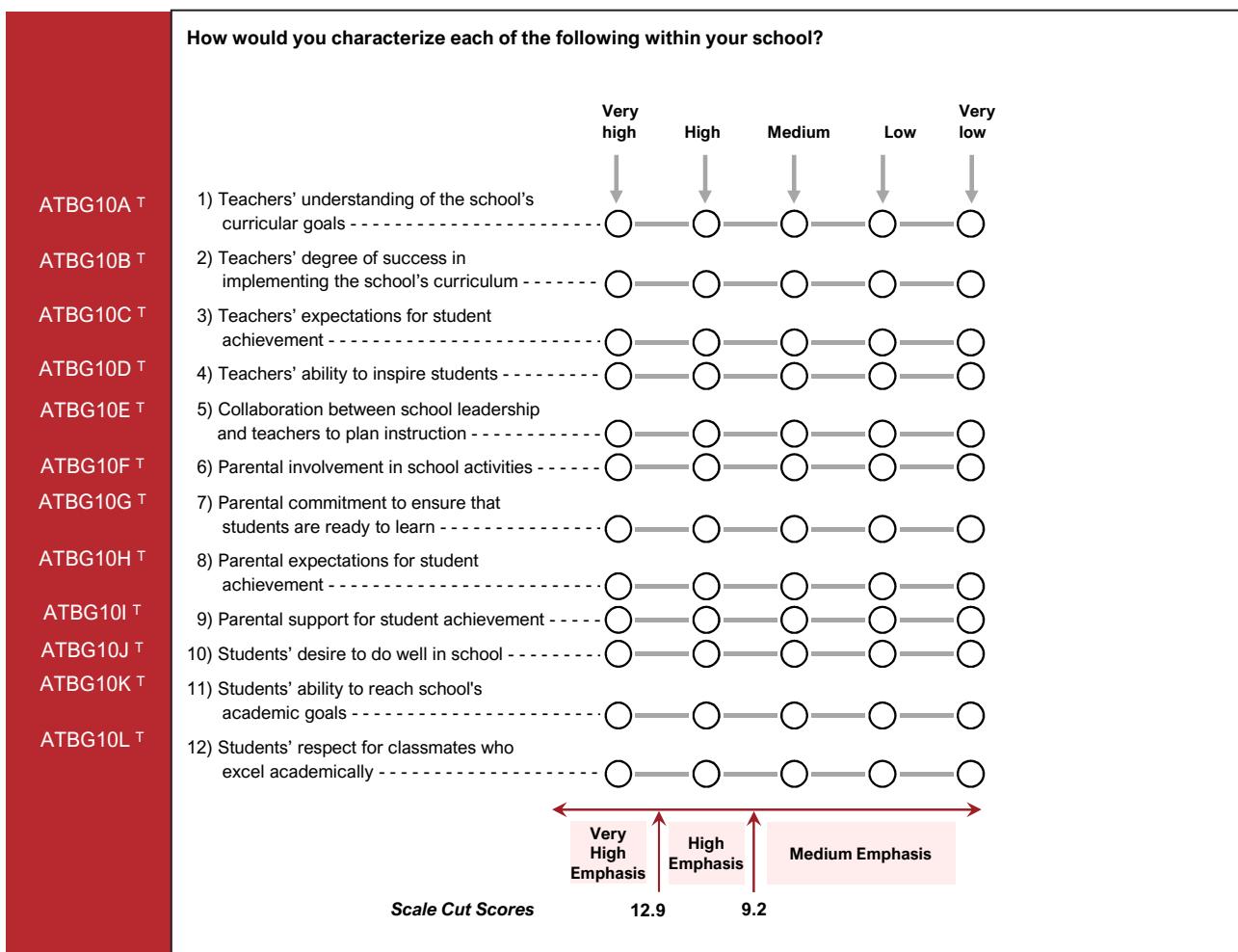
| Country | Pearson's Correlation with Reading Achievement | | Variance in Reading Achievement Accounted for by Difference Between Regions of the Scale (η^2) |
|----------------------------------|--|-------------|---|
| | r | r^2 | |
| Oman | 0.08 | 0.01 | 0.01 |
| Poland | -0.04 | 0.00 | 0.00 |
| Portugal | 0.12 | 0.01 | 0.01 |
| Qatar | 0.03 | 0.00 | 0.00 |
| Russian Federation | -0.01 | 0.00 | 0.00 |
| Saudi Arabia | 0.13 | 0.02 | 0.02 |
| Serbia | -0.01 | 0.00 | 0.00 |
| Singapore | 0.07 | 0.00 | 0.01 |
| Slovak Republic | 0.11 | 0.01 | 0.01 |
| Slovenia | -0.01 | 0.00 | 0.00 |
| South Africa | 0.08 | 0.01 | 0.01 |
| Spain | 0.08 | 0.01 | 0.00 |
| Sweden | 0.19 | 0.04 | 0.04 |
| Turkiye | 0.09 | 0.01 | 0.01 |
| United Arab Emirates | 0.23 | 0.05 | 0.05 |
| United States | — | — | — |
| Uzbekistan | 0.08 | 0.01 | 0.00 |
| International Median | 0.10 | 0.01 | 0.01 |
| Benchmarking Participants | | | |
| Alberta, Canada | 0.15 | 0.02 | 0.02 |
| British Columbia, Canada | 0.18 | 0.03 | 0.03 |
| Newfoundland & Labrador, Can. | 0.11 | 0.01 | 0.02 |
| Quebec, Canada | 0.09 | 0.01 | 0.01 |
| Moscow City, Russian Fed. | 0.09 | 0.01 | 0.01 |
| South Africa (6) | 0.17 | 0.03 | 0.04 |
| Abu Dhabi, UAE | 0.26 | 0.07 | 0.06 |
| Dubai, UAE | 0.06 | 0.00 | 0.00 |

A dash (—) indicates comparable data not available.

School Emphasis on Academic Success – Teachers' Reports

About the Scale¹

Students were scored according to their teachers' responses characterizing twelve aspects on the *School Emphasis on Academic Success* scale. Cut scores divide the scale into three categories. Students in schools with a **Very High Emphasis** on academic success had a score at or above the cut score corresponding to their teachers characterizing six of the twelve aspects as "very high" and the other six as "high," on average. Students in schools with a **Medium Emphasis** on academic success had a score at or below the cut score corresponding to their teachers characterizing six of the twelve aspects as "medium" and the other six as "high," on average. All other students attended schools with a **High Emphasis** on academic success.



¹ For the purpose of scaling, categories in which there were very few respondents were combined. The categories "Low" and "Very Low" were combined for all variables. Scale statistics reflect analysis of the items following collapsing.

^T Trend item—item was included in the same scale in PIRLS 2016 and was used for linking the PIRLS 2016 and PIRLS 2021 scales.

Item Parameters for the PIRLS 2021 School Emphasis on Academic Success – Teachers' Reports Scale

| Item | delta | tau_1 | tau_2 | tau_3 | Infit | Q-Index |
|---------|----------|----------|----------|---------|-------|---------|
| ATBG10A | -1.04676 | -2.53137 | -0.11284 | 2.64421 | 1.07 | 0.16 |
| ATBG10B | -0.83404 | -2.90962 | -0.00207 | 2.91169 | 0.98 | 0.14 |
| ATBG10C | -0.71575 | -2.87636 | -0.04684 | 2.92320 | 1.05 | 0.17 |
| ATBG10D | -0.96237 | -2.65997 | 0.00948 | 2.65049 | 1.00 | 0.14 |
| ATBG10E | -0.21718 | -1.39579 | -0.18632 | 1.58211 | 1.22 | 0.16 |
| ATBG10F | 0.95289 | -2.03221 | 0.06660 | 1.96561 | 1.01 | 0.13 |
| ATBG10G | 1.14759 | -2.23487 | 0.14799 | 2.08688 | 0.87 | 0.09 |
| ATBG10H | 0.04044 | -2.30568 | -0.06777 | 2.37345 | 1.12 | 0.16 |
| ATBG10I | 0.99895 | -2.46596 | 0.18533 | 2.28063 | 0.92 | 0.11 |
| ATBG10J | 0.16856 | -2.68487 | 0.08560 | 2.59927 | 0.92 | 0.12 |
| ATBG10K | 0.64317 | -3.20334 | 0.24992 | 2.95342 | 0.87 | 0.11 |
| ATBG10L | -0.17550 | -2.45011 | -0.12566 | 2.57577 | 1.11 | 0.17 |

Scale Transformation Constants for the PIRLS 2021 School Emphasis on Academic Success – Teachers' Reports Scale

Scale Transformation Constants

A = 9.085861

B = 1.423624

Transformed Scale Score = 9.085861 + 1.423624 • Logit Scale Score

**Equivalence Table of the Raw Score and Transformed Scale Scores for the PIRLS
2021 School Emphasis on Academic Success – Teachers’ Reports Scale**

| Raw Score | Transformed Scale Score | Cutpoint |
|-----------|-------------------------|----------|
| 1 | 2.11046 | |
| 2 | 3.02450 | |
| 3 | 3.69700 | |
| 4 | 4.25334 | |
| 5 | 4.74295 | |
| 6 | 5.18576 | |
| 7 | 5.59410 | |
| 8 | 5.97557 | |
| 9 | 6.33546 | |
| 10 | 6.67793 | |
| 11 | 7.00620 | |
| 12 | 7.32427 | |
| 13 | 7.63433 | |
| 14 | 7.93892 | |
| 15 | 8.24023 | |
| 16 | 8.54003 | |
| 17 | 8.83963 | |
| 18 | 9.13986 | 9.2 |
| 19 | 9.44107 | |
| 20 | 9.74330 | |
| 21 | 10.04645 | |
| 22 | 10.35049 | |
| 23 | 10.65566 | |
| 24 | 10.96267 | |
| 25 | 11.27266 | |
| 26 | 11.58744 | |
| 27 | 11.90844 | |
| 28 | 12.24020 | |
| 29 | 12.58648 | |
| 30 | 12.95333 | 12.9 |
| 31 | 13.34977 | |
| 32 | 13.79010 | |
| 33 | 14.29769 | |
| 34 | 14.92360 | |
| 35 | 15.79388 | |
| 36 | 17.49801 | |

**Cronbach's Alpha Reliability Coefficient and Principal Components Analysis of the Items in the
 PIRLS 2021 School Emphasis on Academic Success – Teachers' Reports Scale**

| Country | Cronbach Alpha Reliability Coefficient | Percent of Variance Explained | Component Loadings for Each Item | | | | | | | | | | | |
|-----------------------|---|--|----------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | | ATBG10A | ATBG10B | ATBG10C | ATBG10D | ATBG10E | ATBG10F | ATBG10G | ATBG10H | ATBG10I | ATBG10J | ATBG10K | ATBG10L |
| Albania | 0.86 | 40 | 0.43 | 0.62 | 0.62 | 0.57 | 0.53 | 0.57 | 0.75 | 0.71 | 0.75 | 0.65 | 0.65 | 0.65 |
| Australia | 0.90 | 49 | 0.68 | 0.73 | 0.73 | 0.68 | 0.62 | 0.64 | 0.76 | 0.70 | 0.79 | 0.77 | 0.72 | 0.57 |
| Austria | 0.84 | 38 | 0.43 | 0.66 | 0.60 | 0.49 | 0.37 | 0.73 | 0.82 | 0.55 | 0.77 | 0.62 | 0.74 | 0.45 |
| Azerbaijan | 0.86 | 39 | 0.66 | 0.67 | 0.62 | 0.62 | 0.65 | 0.62 | 0.71 | 0.51 | 0.70 | 0.55 | 0.58 | 0.53 |
| Bahrain | 0.91 | 50 | 0.65 | 0.63 | 0.70 | 0.69 | 0.61 | 0.74 | 0.77 | 0.70 | 0.78 | 0.76 | 0.76 | 0.64 |
| Belgium (Flemish) | 0.84 | 38 | 0.42 | 0.64 | 0.63 | 0.61 | 0.38 | 0.70 | 0.76 | 0.61 | 0.75 | 0.60 | 0.69 | 0.43 |
| Belgium (French) | 0.84 | 38 | 0.36 | 0.55 | 0.58 | 0.36 | 0.35 | 0.73 | 0.80 | 0.67 | 0.78 | 0.70 | 0.71 | 0.53 |
| Brazil | 0.90 | 49 | 0.58 | 0.71 | 0.63 | 0.60 | 0.59 | 0.78 | 0.82 | 0.76 | 0.75 | 0.68 | 0.74 | 0.72 |
| Bulgaria | 0.89 | 46 | 0.47 | 0.57 | 0.71 | 0.69 | 0.57 | 0.74 | 0.71 | 0.63 | 0.78 | 0.78 | 0.81 | 0.60 |
| Chinese Taipei | 0.89 | 46 | 0.64 | 0.52 | 0.70 | 0.71 | 0.63 | 0.61 | 0.72 | 0.66 | 0.75 | 0.75 | 0.78 | 0.64 |
| Croatia | 0.89 | 46 | 0.71 | 0.67 | 0.59 | 0.69 | 0.64 | 0.71 | 0.77 | 0.61 | 0.71 | 0.71 | 0.71 | 0.60 |
| Cyprus | 0.89 | 48 | 0.60 | 0.68 | 0.69 | 0.61 | 0.43 | 0.69 | 0.81 | 0.78 | 0.82 | 0.75 | 0.78 | 0.53 |
| Czech Republic | 0.84 | 37 | 0.48 | 0.57 | 0.53 | 0.56 | 0.58 | 0.61 | 0.70 | 0.55 | 0.63 | 0.71 | 0.73 | 0.58 |
| Denmark | 0.89 | 47 | 0.63 | 0.58 | 0.66 | 0.57 | 0.55 | 0.79 | 0.80 | 0.68 | 0.76 | 0.74 | 0.80 | 0.61 |
| Egypt | 0.91 | 52 | 0.71 | 0.73 | 0.56 | 0.60 | 0.65 | 0.68 | 0.82 | 0.74 | 0.76 | 0.77 | 0.81 | 0.74 |
| England | 0.87 | 42 | 0.47 | 0.60 | 0.49 | 0.63 | 0.48 | 0.66 | 0.75 | 0.77 | 0.76 | 0.72 | 0.77 | 0.56 |
| Finland | 0.85 | 38 | 0.54 | 0.56 | 0.57 | 0.50 | 0.56 | 0.61 | 0.74 | 0.68 | 0.70 | 0.69 | 0.63 | 0.56 |
| France | 0.83 | 36 | 0.42 | 0.53 | 0.54 | 0.51 | 0.44 | 0.69 | 0.77 | 0.62 | 0.73 | 0.68 | 0.71 | 0.41 |
| Georgia | 0.90 | 49 | 0.69 | 0.71 | 0.68 | 0.71 | 0.65 | 0.74 | 0.74 | 0.57 | 0.79 | 0.74 | 0.67 | 0.65 |
| Germany | 0.81 | 35 | 0.39 | 0.46 | 0.53 | 0.43 | 0.32 | 0.62 | 0.80 | 0.65 | 0.80 | 0.65 | 0.74 | 0.43 |
| Hong Kong SAR | 0.88 | 43 | 0.59 | 0.66 | 0.63 | 0.66 | 0.63 | 0.65 | 0.76 | 0.68 | 0.71 | 0.71 | 0.73 | 0.33 |
| Hungary | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Iran, Islamic Rep. of | 0.89 | 47 | 0.59 | 0.67 | 0.60 | 0.60 | 0.63 | 0.78 | 0.77 | 0.57 | 0.72 | 0.71 | 0.75 | 0.75 |
| Ireland | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Israel | 0.88 | 44 | 0.68 | 0.72 | 0.54 | 0.72 | 0.69 | 0.46 | 0.66 | 0.60 | 0.72 | 0.74 | 0.75 | 0.60 |
| Italy | 0.85 | 39 | 0.66 | 0.69 | 0.58 | 0.54 | 0.62 | 0.56 | 0.76 | 0.56 | 0.71 | 0.62 | 0.69 | 0.48 |
| Jordan | 0.91 | 51 | 0.69 | 0.69 | 0.49 | 0.56 | 0.56 | 0.81 | 0.86 | 0.77 | 0.78 | 0.79 | 0.80 | 0.70 |
| Kazakhstan | 0.93 | 56 | 0.67 | 0.71 | 0.77 | 0.74 | 0.73 | 0.71 | 0.74 | 0.80 | 0.80 | 0.77 | 0.76 | 0.77 |
| Kosovo | 0.88 | 47 | 0.70 | 0.70 | 0.59 | 0.65 | 0.69 | 0.72 | 0.72 | 0.68 | 0.78 | 0.66 | 0.72 | 0.56 |
| Latvia | 0.85 | 38 | 0.68 | 0.69 | 0.62 | 0.59 | 0.70 | 0.61 | 0.72 | 0.19 | 0.70 | 0.61 | 0.66 | 0.49 |
| Lithuania | 0.89 | 47 | 0.66 | 0.71 | 0.52 | 0.68 | 0.68 | 0.73 | 0.73 | 0.63 | 0.73 | 0.71 | 0.72 | 0.67 |
| Macao SAR | 0.92 | 54 | 0.75 | 0.80 | 0.75 | 0.78 | 0.75 | 0.75 | 0.78 | 0.65 | 0.74 | 0.75 | 0.74 | 0.57 |
| Malta | 0.88 | 45 | 0.65 | 0.62 | 0.68 | 0.61 | 0.60 | 0.66 | 0.78 | 0.62 | 0.75 | 0.73 | 0.74 | 0.53 |
| Montenegro | 0.85 | 39 | 0.74 | 0.68 | 0.59 | 0.68 | 0.66 | 0.58 | 0.66 | 0.35 | 0.63 | 0.62 | 0.61 | 0.59 |
| Morocco | 0.87 | 43 | 0.63 | 0.69 | 0.61 | 0.60 | 0.68 | 0.69 | 0.75 | 0.49 | 0.61 | 0.70 | 0.69 | 0.69 |
| Netherlands | 0.80 | 34 | 0.32 | 0.57 | 0.59 | 0.62 | 0.18 | 0.61 | 0.68 | 0.60 | 0.74 | 0.73 | 0.71 | 0.37 |
| New Zealand | 0.89 | 46 | 0.62 | 0.72 | 0.63 | 0.63 | 0.55 | 0.66 | 0.79 | 0.76 | 0.76 | 0.71 | 0.74 | 0.54 |
| North Macedonia | 0.91 | 50 | 0.61 | 0.72 | 0.70 | 0.67 | 0.58 | 0.75 | 0.76 | 0.64 | 0.78 | 0.71 | 0.77 | 0.75 |
| Northern Ireland | 0.90 | 49 | 0.57 | 0.57 | 0.70 | 0.67 | 0.53 | 0.68 | 0.81 | 0.69 | 0.83 | 0.79 | 0.81 | 0.66 |

**Cronbach's Alpha Reliability Coefficient and Principal Components Analysis of the Items in the
 PIRLS 2021 School Emphasis on Academic Success – Teachers' Reports Scale**

| Country | Cronbach Alpha Reliability Coefficient | Percent of Variance Explained | Component Loadings for Each Item | | | | | | | | | | | | | |
|----------------------------------|---|--|----------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|---|
| | | | ATBG10A | ATBG10B | ATBG10C | ATBG10D | ATBG10E | ATBG10F | ATBG10G | ATBG10H | ATBG10I | ATBG10J | ATBG10K | ATBG10L | | |
| Norway (5) | 0.80 | 33 | 0.45 | 0.59 | 0.63 | 0.60 | 0.40 | 0.59 | 0.66 | 0.56 | 0.57 | 0.64 | 0.65 | 0.45 | | |
| Oman | 0.88 | 43 | 0.46 | 0.41 | 0.70 | 0.52 | 0.59 | 0.70 | 0.77 | 0.72 | 0.73 | 0.75 | 0.72 | 0.67 | | |
| Poland | 0.84 | 37 | 0.53 | 0.59 | 0.56 | 0.66 | 0.53 | 0.65 | 0.76 | 0.51 | 0.66 | 0.68 | 0.66 | 0.48 | | |
| Portugal | 0.88 | 44 | 0.44 | 0.56 | 0.61 | 0.50 | 0.53 | 0.75 | 0.82 | 0.75 | 0.80 | 0.77 | 0.78 | 0.53 | | |
| Qatar | 0.91 | 52 | 0.74 | 0.76 | 0.70 | 0.71 | 0.73 | 0.62 | 0.76 | 0.56 | 0.79 | 0.74 | 0.81 | 0.68 | | |
| Russian Federation | 0.89 | 45 | 0.65 | 0.73 | 0.68 | 0.69 | 0.67 | 0.70 | 0.72 | 0.49 | 0.69 | 0.62 | 0.73 | 0.63 | | |
| Saudi Arabia | 0.92 | 56 | 0.74 | 0.77 | 0.73 | 0.66 | 0.65 | 0.63 | 0.74 | 0.77 | 0.77 | 0.81 | 0.87 | 0.77 | | |
| Serbia | 0.87 | 42 | 0.64 | 0.65 | 0.43 | 0.70 | 0.61 | 0.77 | 0.74 | 0.27 | 0.72 | 0.70 | 0.71 | 0.66 | | |
| Singapore | 0.91 | 50 | 0.53 | 0.61 | 0.66 | 0.62 | 0.67 | 0.76 | 0.82 | 0.72 | 0.81 | 0.77 | 0.82 | 0.61 | | |
| Slovak Republic | 0.88 | 44 | 0.57 | 0.67 | 0.54 | 0.57 | 0.47 | 0.71 | 0.76 | 0.60 | 0.79 | 0.78 | 0.80 | 0.59 | | |
| Slovenia | 0.83 | 36 | 0.70 | 0.69 | 0.67 | 0.67 | 0.66 | 0.56 | 0.71 | 0.26 | 0.64 | 0.49 | 0.55 | 0.49 | | |
| South Africa | 0.91 | 50 | 0.57 | 0.60 | 0.53 | 0.61 | 0.61 | 0.78 | 0.79 | 0.70 | 0.77 | 0.83 | 0.81 | 0.75 | | |
| Spain | 0.87 | 42 | 0.50 | 0.65 | 0.72 | 0.52 | 0.51 | 0.72 | 0.79 | 0.72 | 0.77 | 0.69 | 0.64 | 0.48 | | |
| Sweden | 0.85 | 40 | 0.64 | 0.63 | 0.71 | 0.60 | 0.39 | 0.63 | 0.75 | 0.63 | 0.75 | 0.67 | 0.67 | 0.40 | | |
| Turkiye | 0.90 | 48 | 0.64 | 0.67 | 0.65 | 0.70 | 0.66 | 0.74 | 0.76 | 0.64 | 0.74 | 0.71 | 0.78 | 0.59 | | |
| United Arab Emirates | 0.92 | 54 | 0.73 | 0.76 | 0.73 | 0.71 | 0.70 | 0.68 | 0.81 | 0.65 | 0.78 | 0.77 | 0.80 | 0.63 | | |
| United States | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Uzbekistan | 0.88 | 43 | 0.57 | 0.61 | 0.70 | 0.66 | 0.52 | 0.64 | 0.68 | 0.69 | 0.74 | 0.68 | 0.70 | 0.64 | | |
| Benchmarking Participants | | | | | | | | | | | | | | | | |
| Alberta, Canada | 0.89 | 46 | 0.45 | 0.60 | 0.64 | 0.60 | 0.52 | 0.74 | 0.79 | 0.82 | 0.78 | 0.73 | 0.74 | 0.60 | | |
| British Columbia, Canada | 0.89 | 47 | 0.54 | 0.71 | 0.71 | 0.64 | 0.54 | 0.70 | 0.83 | 0.75 | 0.83 | 0.66 | 0.75 | 0.48 | | |
| Newfoundland & Labrador, Can | 0.87 | 46 | 0.67 | 0.63 | 0.64 | 0.65 | 0.29 | 0.70 | 0.80 | 0.79 | 0.80 | 0.81 | 0.56 | 0.65 | | |
| Quebec, Canada | 0.85 | 39 | 0.61 | 0.56 | 0.48 | 0.57 | 0.44 | 0.60 | 0.70 | 0.69 | 0.78 | 0.73 | 0.71 | 0.55 | | |
| Moscow City, Russian Fed. | 0.89 | 46 | 0.64 | 0.76 | 0.74 | 0.74 | 0.75 | 0.71 | 0.72 | 0.49 | 0.70 | 0.59 | 0.71 | 0.53 | | |
| South Africa (6) | 0.91 | 49 | 0.56 | 0.63 | 0.47 | 0.58 | 0.68 | 0.77 | 0.77 | 0.70 | 0.79 | 0.81 | 0.83 | 0.73 | | |
| Abu Dhabi, UAE | 0.93 | 58 | 0.73 | 0.75 | 0.77 | 0.70 | 0.71 | 0.75 | 0.84 | 0.71 | 0.82 | 0.77 | 0.84 | 0.73 | | |
| Dubai, UAE | 0.90 | 49 | 0.74 | 0.78 | 0.68 | 0.74 | 0.71 | 0.59 | 0.77 | 0.54 | 0.74 | 0.76 | 0.76 | 0.50 | | |

A dash (–) indicates comparable data not available.

Relationship Between the PIRLS 2021 School Emphasis on Academic Success – Teachers’ Reports Scale and PIRLS 2021 Achievement

| Country | Pearson’s Correlation with Reading Achievement | | Variance in Reading Achievement Accounted for by Difference Between Regions of the Scale (η^2) |
|-----------------------|--|-------|---|
| | r | r^2 | |
| Albania | 0.13 | 0.02 | 0.02 |
| Australia | 0.14 | 0.02 | 0.01 |
| Austria | 0.23 | 0.05 | 0.04 |
| Azerbaijan | -0.01 | 0.00 | 0.00 |
| Bahrain | 0.21 | 0.05 | 0.04 |
| Belgium (Flemish) | 0.12 | 0.01 | 0.01 |
| Belgium (French) | 0.19 | 0.04 | 0.02 |
| Brazil | 0.23 | 0.05 | 0.04 |
| Bulgaria | 0.35 | 0.12 | 0.09 |
| Chinese Taipei | 0.12 | 0.01 | 0.01 |
| Croatia | 0.02 | 0.00 | 0.01 |
| Cyprus | 0.23 | 0.05 | 0.05 |
| Czech Republic | 0.08 | 0.01 | 0.00 |
| Denmark | 0.15 | 0.02 | 0.02 |
| Egypt | 0.13 | 0.02 | 0.02 |
| England | 0.16 | 0.03 | 0.03 |
| Finland | 0.16 | 0.02 | 0.02 |
| France | 0.13 | 0.02 | 0.02 |
| Georgia | 0.06 | 0.00 | 0.00 |
| Germany | 0.27 | 0.07 | 0.05 |
| Hong Kong SAR | 0.12 | 0.02 | 0.02 |
| Hungary | – | – | – |
| Iran, Islamic Rep. of | 0.15 | 0.02 | 0.01 |
| Ireland | – | – | – |
| Israel | 0.03 | 0.00 | 0.00 |
| Italy | -0.02 | 0.00 | 0.00 |
| Jordan | 0.17 | 0.03 | 0.04 |
| Kazakhstan | -0.06 | 0.00 | 0.00 |
| Kosovo | 0.07 | 0.01 | 0.01 |
| Latvia | 0.05 | 0.00 | 0.01 |
| Lithuania | -0.05 | 0.00 | 0.00 |
| Macao SAR | 0.17 | 0.03 | 0.03 |
| Malta | 0.08 | 0.01 | 0.01 |
| Montenegro | 0.02 | 0.00 | 0.00 |
| Morocco | 0.26 | 0.07 | 0.08 |
| Netherlands | 0.18 | 0.03 | 0.01 |
| New Zealand | 0.20 | 0.04 | 0.04 |
| North Macedonia | 0.03 | 0.00 | 0.01 |
| Northern Ireland | 0.17 | 0.03 | 0.03 |
| Norway (5) | 0.05 | 0.00 | 0.00 |

Relationship Between the PIRLS 2021 School Emphasis on Academic Success – Teachers' Reports Scale and PIRLS 2021 Achievement

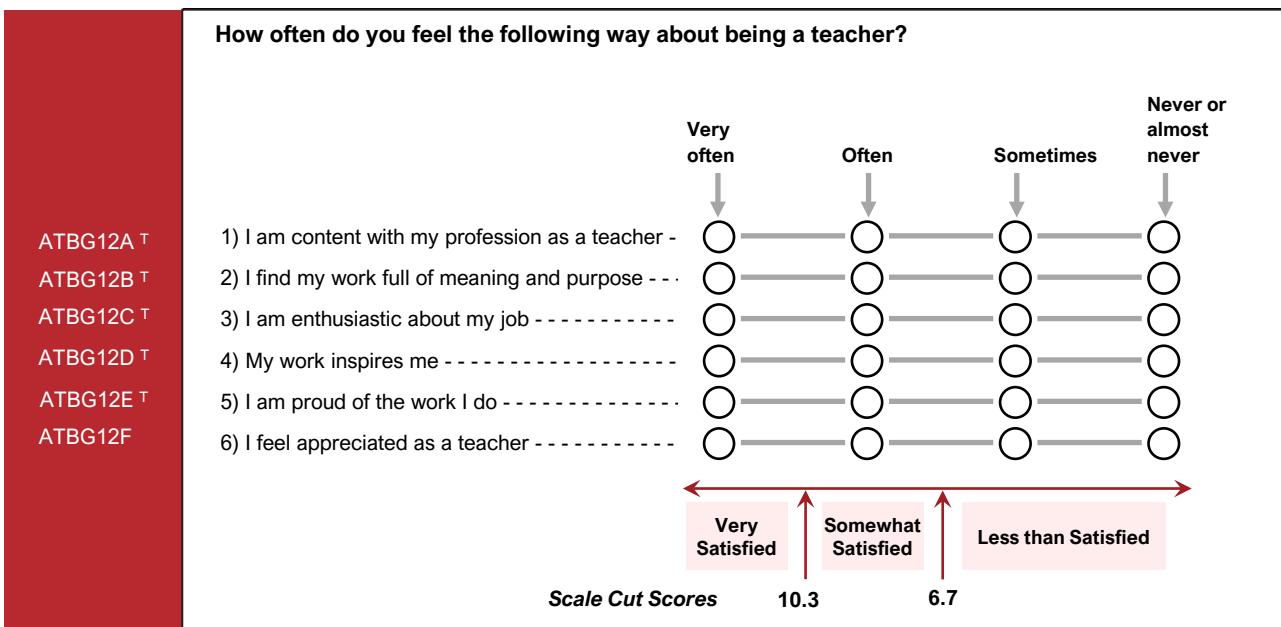
| Country | Pearson's Correlation with Reading Achievement | | Variance in Reading Achievement Accounted for by Difference Between Regions of the Scale (η^2) |
|----------------------------------|--|-------------|---|
| | r | r^2 | |
| Oman | 0.07 | 0.01 | 0.01 |
| Poland | 0.03 | 0.00 | 0.00 |
| Portugal | 0.17 | 0.03 | 0.02 |
| Qatar | 0.02 | 0.00 | 0.00 |
| Russian Federation | 0.16 | 0.02 | 0.02 |
| Saudi Arabia | 0.07 | 0.01 | 0.01 |
| Serbia | 0.09 | 0.01 | 0.01 |
| Singapore | 0.20 | 0.04 | 0.03 |
| Slovak Republic | 0.20 | 0.04 | 0.04 |
| Slovenia | 0.00 | 0.00 | 0.00 |
| South Africa | 0.09 | 0.01 | 0.01 |
| Spain | 0.05 | 0.00 | 0.00 |
| Sweden | 0.17 | 0.03 | 0.02 |
| Turkiye | 0.21 | 0.05 | 0.03 |
| United Arab Emirates | 0.14 | 0.02 | 0.04 |
| United States | – | – | – |
| Uzbekistan | 0.06 | 0.00 | 0.00 |
| International Median | 0.13 | 0.02 | 0.01 |
| Benchmarking Participants | | | |
| Alberta, Canada | 0.09 | 0.01 | 0.00 |
| British Columbia, Canada | 0.17 | 0.03 | 0.03 |
| Newfoundland & Labrador, Can. | 0.15 | 0.02 | 0.01 |
| Quebec, Canada | 0.12 | 0.01 | 0.01 |
| Moscow City, Russian Fed. | 0.07 | 0.01 | 0.01 |
| South Africa (6) | 0.00 | 0.00 | 0.01 |
| Abu Dhabi, UAE | 0.20 | 0.04 | 0.07 |
| Dubai, UAE | 0.04 | 0.00 | 0.00 |

A dash (–) indicates comparable data not available.

Teachers' Job Satisfaction

About the Scale¹

Students were scored according to their teachers' responses to six statements on the *Teachers' Job Satisfaction* scale. Cut scores divide the scale into three categories. Students with **Very Satisfied** teachers had a score at or above the cut score corresponding to their teachers responding "very often" to three of the six statements and "often" to the other three, on average. Students with **Less than Satisfied** teachers had a score at or below the cut score corresponding to their teachers responding "sometimes" to three of the six statements and "often" to the other three, on average. All other students had **Somewhat Satisfied** teachers.



¹ For the purpose of scaling, categories in which there were very few respondents were combined. The categories "Sometimes" and "Never or Almost Never" were combined for all variables. Scale statistics reflect analysis of the items following collapsing.

^T Trend item—item was included in the same scale in PIRLS 2016 and was used for linking the PIRLS 2016 and PIRLS 2021 scales.

Item Parameters for the PIRLS 2021 Teachers' Job Satisfaction Scale

| Item | delta | tau_1 | tau_2 | Infit | Q-Index |
|---------|----------|----------|---------|-------|---------|
| ATBG12A | -0.20935 | -1.86029 | 1.86029 | 0.95 | 0.06 |
| ATBG12B | -1.08962 | -1.82456 | 1.82456 | 0.97 | 0.06 |
| ATBG12C | -0.20649 | -1.81103 | 1.81103 | 0.87 | 0.04 |
| ATBG12D | 0.09996 | -1.64132 | 1.64132 | 0.88 | 0.04 |
| ATBG12E | -0.42069 | -1.51054 | 1.51054 | 0.98 | 0.06 |
| ATBG12F | 1.82619 | -1.29045 | 1.29045 | 1.42 | 0.09 |

Scale Transformation Constants for the PIRLS 2021 Teachers' Job Satisfaction Scale

Scale Transformation Constants

A = 8.566821

B = 1.024015

Transformed Scale Score = 8.566821 + 1.024015 • Logit Scale Score

Equivalence Table of the Raw Score and Transformed Scale Scores for the PIRLS 2021 Teachers' Job Satisfaction Scale

| Raw Score | Transformed Scale Score | Cutpoint |
|-----------|-------------------------|----------|
| 0 | 3.83998 | |
| 1 | 5.21324 | |
| 2 | 6.01233 | |
| 3 | 6.68030 | 6.7 |
| 4 | 7.33436 | |
| 5 | 8.01840 | |
| 6 | 8.67953 | |
| 7 | 9.27422 | |
| 8 | 9.82876 | |
| 9 | 10.39017 | 10.3 |
| 10 | 11.01744 | |
| 11 | 11.82034 | |
| 12 | 13.24134 | |

Cronbach's Alpha Reliability Coefficient and Principal Components Analysis of the Items in the PIRLS 2021 Teachers' Job Satisfaction Scale

| Country | Cronbach's Alpha Reliability Coefficient | Percent of Variance Explained | Component Loadings for Each Item | | | | | |
|-----------------------|--|-------------------------------|----------------------------------|---------|---------|---------|---------|---------|
| | | | ATBG12A | ATBG12B | ATBG12C | ATBG12D | ATBG12E | ATBG12F |
| Albania | 0.83 | 55 | 0.71 | 0.78 | 0.81 | 0.77 | 0.65 | 0.71 |
| Australia | 0.91 | 70 | 0.83 | 0.89 | 0.91 | 0.90 | 0.79 | 0.68 |
| Austria | 0.83 | 58 | 0.77 | 0.73 | 0.84 | 0.83 | 0.78 | 0.56 |
| Azerbaijan | 0.75 | 45 | 0.56 | 0.63 | 0.75 | 0.75 | 0.73 | 0.59 |
| Bahrain | 0.83 | 55 | 0.79 | 0.68 | 0.83 | 0.80 | 0.65 | 0.69 |
| Belgium (Flemish) | 0.88 | 65 | 0.82 | 0.77 | 0.86 | 0.86 | 0.82 | 0.68 |
| Belgium (French) | 0.88 | 64 | 0.84 | 0.85 | 0.89 | 0.87 | 0.70 | 0.63 |
| Brazil | 0.81 | 53 | 0.78 | 0.68 | 0.79 | 0.82 | 0.66 | 0.64 |
| Bulgaria | 0.85 | 59 | 0.73 | 0.68 | 0.85 | 0.80 | 0.78 | 0.73 |
| Chinese Taipei | 0.92 | 71 | 0.86 | 0.87 | 0.88 | 0.88 | 0.84 | 0.70 |
| Croatia | 0.86 | 62 | 0.82 | 0.75 | 0.80 | 0.85 | 0.80 | 0.68 |
| Cyprus | 0.92 | 73 | 0.88 | 0.89 | 0.92 | 0.90 | 0.85 | 0.66 |
| Czech Republic | 0.88 | 64 | 0.79 | 0.82 | 0.86 | 0.84 | 0.81 | 0.65 |
| Denmark | 0.89 | 65 | 0.87 | 0.78 | 0.84 | 0.85 | 0.76 | 0.75 |
| Egypt | 0.79 | 53 | 0.71 | 0.75 | 0.83 | 0.75 | 0.72 | 0.57 |
| England | 0.89 | 65 | 0.82 | 0.80 | 0.86 | 0.86 | 0.79 | 0.70 |
| Finland | 0.90 | 68 | 0.85 | 0.78 | 0.88 | 0.89 | 0.81 | 0.73 |
| France | 0.85 | 57 | 0.78 | 0.67 | 0.84 | 0.84 | 0.76 | 0.61 |
| Georgia | 0.69 | 44 | 0.67 | 0.70 | 0.67 | 0.68 | 0.73 | 0.54 |
| Germany | 0.86 | 60 | 0.79 | 0.69 | 0.87 | 0.84 | 0.79 | 0.64 |
| Hong Kong SAR | 0.91 | 70 | 0.86 | 0.88 | 0.81 | 0.83 | 0.88 | 0.76 |
| Hungary | — | — | — | — | — | — | — | — |
| Iran, Islamic Rep. of | 0.86 | 65 | 0.81 | 0.76 | 0.84 | 0.90 | 0.81 | 0.70 |
| Ireland | — | — | — | — | — | — | — | — |
| Israel | 0.89 | 68 | 0.81 | 0.86 | 0.87 | 0.90 | 0.83 | 0.65 |
| Italy | 0.86 | 61 | 0.77 | 0.74 | 0.83 | 0.85 | 0.82 | 0.67 |
| Jordan | 0.88 | 65 | 0.82 | 0.82 | 0.89 | 0.82 | 0.83 | 0.65 |
| Kazakhstan | 0.92 | 70 | 0.80 | 0.77 | 0.87 | 0.88 | 0.87 | 0.85 |
| Kosovo | 0.66 | 41 | 0.64 | 0.67 | 0.79 | 0.60 | 0.58 | 0.51 |
| Latvia | 0.88 | 62 | 0.80 | 0.74 | 0.78 | 0.85 | 0.81 | 0.73 |
| Lithuania | 0.89 | 66 | 0.81 | 0.72 | 0.83 | 0.88 | 0.88 | 0.73 |
| Macao SAR | 0.93 | 76 | 0.89 | 0.92 | 0.88 | 0.91 | 0.89 | 0.74 |
| Malta | 0.90 | 69 | 0.87 | 0.89 | 0.88 | 0.90 | 0.76 | 0.64 |
| Montenegro | 0.84 | 60 | 0.83 | 0.61 | 0.85 | 0.89 | 0.81 | 0.63 |
| Morocco | 0.78 | 51 | 0.79 | 0.59 | 0.85 | 0.81 | 0.61 | 0.59 |
| Netherlands | 0.88 | 65 | 0.83 | 0.79 | 0.89 | 0.86 | 0.81 | 0.61 |
| New Zealand | 0.89 | 66 | 0.83 | 0.86 | 0.88 | 0.86 | 0.72 | 0.67 |
| North Macedonia | 0.87 | 64 | 0.86 | 0.75 | 0.83 | 0.86 | 0.79 | 0.68 |
| Northern Ireland | 0.91 | 69 | 0.87 | 0.86 | 0.87 | 0.88 | 0.79 | 0.71 |

Cronbach's Alpha Reliability Coefficient and Principal Components Analysis of the Items in the PIRLS 2021 Teachers' Job Satisfaction Scale

| Country | Cronbach's Alpha Reliability Coefficient | Percent of Variance Explained | Component Loadings for Each Item | | | | | |
|----------------------------------|--|-------------------------------|----------------------------------|---------|---------|---------|---------|---------|
| | | | ATBG12A | ATBG12B | ATBG12C | ATBG12D | ATBG12E | ATBG12F |
| Norway (5) | 0.89 | 66 | 0.82 | 0.83 | 0.87 | 0.87 | 0.78 | 0.70 |
| Oman | 0.80 | 53 | 0.70 | 0.74 | 0.80 | 0.65 | 0.76 | 0.71 |
| Poland | 0.88 | 64 | 0.80 | 0.87 | 0.81 | 0.83 | 0.82 | 0.64 |
| Portugal | 0.86 | 61 | 0.81 | 0.76 | 0.88 | 0.87 | 0.77 | 0.57 |
| Qatar | 0.91 | 72 | 0.85 | 0.88 | 0.90 | 0.87 | 0.83 | 0.75 |
| Russian Federation | 0.88 | 65 | 0.82 | 0.76 | 0.85 | 0.86 | 0.83 | 0.69 |
| Saudi Arabia | 0.90 | 70 | 0.82 | 0.79 | 0.90 | 0.90 | 0.81 | 0.79 |
| Serbia | 0.85 | 59 | 0.74 | 0.66 | 0.86 | 0.85 | 0.82 | 0.67 |
| Singapore | 0.94 | 78 | 0.88 | 0.90 | 0.93 | 0.93 | 0.89 | 0.75 |
| Slovak Republic | 0.88 | 65 | 0.82 | 0.84 | 0.88 | 0.89 | 0.86 | 0.44 |
| Slovenia | 0.88 | 64 | 0.76 | 0.82 | 0.86 | 0.87 | 0.82 | 0.65 |
| South Africa | 0.87 | 63 | 0.79 | 0.80 | 0.85 | 0.85 | 0.79 | 0.65 |
| Spain | 0.80 | 53 | 0.69 | 0.63 | 0.78 | 0.81 | 0.76 | 0.67 |
| Sweden | 0.89 | 65 | 0.83 | 0.74 | 0.86 | 0.89 | 0.80 | 0.70 |
| Turkiye | 0.88 | 66 | 0.88 | 0.70 | 0.92 | 0.91 | 0.84 | 0.58 |
| United Arab Emirates | 0.91 | 70 | 0.83 | 0.85 | 0.89 | 0.89 | 0.79 | 0.76 |
| United States | — | — | — | — | — | — | — | — |
| Uzbekistan | 0.82 | 54 | 0.71 | 0.76 | 0.71 | 0.79 | 0.77 | 0.64 |
| Benchmarking Participants | | | | | | | | |
| Alberta, Canada | 0.88 | 66 | 0.82 | 0.88 | 0.87 | 0.89 | 0.75 | 0.62 |
| British Columbia, Canada | 0.92 | 72 | 0.85 | 0.88 | 0.89 | 0.92 | 0.82 | 0.72 |
| Newfoundland & Labrador, Can. | 0.92 | 71 | 0.87 | 0.90 | 0.91 | 0.88 | 0.77 | 0.71 |
| Quebec, Canada | 0.87 | 63 | 0.82 | 0.74 | 0.86 | 0.86 | 0.84 | 0.60 |
| Moscow City, Russian Fed. | 0.88 | 64 | 0.81 | 0.73 | 0.81 | 0.86 | 0.82 | 0.75 |
| South Africa (6) | 0.86 | 64 | 0.80 | 0.83 | 0.86 | 0.90 | 0.76 | 0.59 |
| Abu Dhabi, UAE | 0.91 | 71 | 0.85 | 0.84 | 0.88 | 0.89 | 0.82 | 0.77 |
| Dubai, UAE | 0.90 | 70 | 0.82 | 0.86 | 0.90 | 0.90 | 0.77 | 0.74 |

A dash (—) indicates comparable data not available.

Relationship Between the PIRLS 2021 Teachers' Job Satisfaction Scale and PIRLS 2021 Achievement

| Country | Pearson's Correlation with Reading Achievement | | Variance in Reading Achievement Accounted for by Difference Between Regions of the Scale (η^2) |
|-----------------------|--|-------|---|
| | r | r^2 | |
| Albania | 0.02 | 0.00 | 0.00 |
| Australia | 0.01 | 0.00 | 0.00 |
| Austria | 0.08 | 0.01 | 0.01 |
| Azerbaijan | 0.01 | 0.00 | 0.01 |
| Bahrain | 0.06 | 0.00 | 0.00 |
| Belgium (Flemish) | 0.05 | 0.00 | 0.01 |
| Belgium (French) | 0.03 | 0.00 | 0.00 |
| Brazil | 0.05 | 0.00 | 0.00 |
| Bulgaria | 0.13 | 0.02 | 0.02 |
| Chinese Taipei | -0.01 | 0.00 | 0.00 |
| Croatia | -0.03 | 0.00 | 0.00 |
| Cyprus | 0.04 | 0.00 | 0.00 |
| Czech Republic | 0.04 | 0.00 | 0.00 |
| Denmark | 0.05 | 0.00 | 0.00 |
| Egypt | 0.03 | 0.00 | 0.00 |
| England | 0.01 | 0.00 | 0.00 |
| Finland | 0.03 | 0.00 | 0.00 |
| France | -0.01 | 0.00 | 0.00 |
| Georgia | 0.05 | 0.00 | 0.00 |
| Germany | 0.08 | 0.01 | 0.01 |
| Hong Kong SAR | 0.05 | 0.00 | 0.00 |
| Hungary | — | — | — |
| Iran, Islamic Rep. of | 0.03 | 0.00 | 0.01 |
| Ireland | — | — | — |
| Israel | -0.07 | 0.00 | 0.01 |
| Italy | -0.08 | 0.01 | 0.01 |
| Jordan | 0.12 | 0.01 | 0.01 |
| Kazakhstan | -0.07 | 0.00 | 0.00 |
| Kosovo | -0.02 | 0.00 | 0.00 |
| Latvia | 0.04 | 0.00 | 0.00 |
| Lithuania | -0.05 | 0.00 | 0.00 |
| Macao SAR | 0.04 | 0.00 | 0.00 |
| Malta | -0.02 | 0.00 | 0.00 |
| Montenegro | -0.06 | 0.00 | 0.00 |
| Morocco | 0.12 | 0.01 | 0.01 |
| Netherlands | 0.05 | 0.00 | 0.02 |
| New Zealand | 0.01 | 0.00 | 0.00 |
| North Macedonia | -0.05 | 0.00 | 0.01 |
| Northern Ireland | 0.02 | 0.00 | 0.00 |
| Norway (5) | 0.01 | 0.00 | 0.00 |

Relationship Between the PIRLS 2021 Teachers' Job Satisfaction Scale and PIRLS 2021 Achievement

| Country | Pearson's Correlation with Reading Achievement | | Variance in Reading Achievement Accounted for by Difference Between Regions of the Scale (η^2) |
|----------------------------------|--|-------------|---|
| | r | r^2 | |
| Oman | -0.01 | 0.00 | 0.00 |
| Poland | -0.03 | 0.00 | 0.00 |
| Portugal | 0.04 | 0.00 | 0.00 |
| Qatar | -0.12 | 0.02 | 0.00 |
| Russian Federation | 0.07 | 0.01 | 0.00 |
| Saudi Arabia | 0.05 | 0.00 | 0.00 |
| Serbia | -0.01 | 0.00 | 0.00 |
| Singapore | 0.02 | 0.00 | 0.00 |
| Slovak Republic | 0.06 | 0.00 | 0.01 |
| Slovenia | 0.01 | 0.00 | 0.00 |
| South Africa | -0.05 | 0.00 | 0.00 |
| Spain | -0.02 | 0.00 | 0.00 |
| Sweden | 0.01 | 0.00 | 0.00 |
| Turkiye | 0.01 | 0.00 | 0.00 |
| United Arab Emirates | 0.06 | 0.00 | 0.00 |
| United States | — | — | — |
| Uzbekistan | 0.04 | 0.00 | 0.00 |
| International Median | 0.02 | 0.00 | 0.00 |
| Benchmarking Participants | | | |
| Alberta, Canada | 0.05 | 0.00 | 0.00 |
| British Columbia, Canada | 0.06 | 0.00 | 0.01 |
| Newfoundland & Labrador, Can. | 0.05 | 0.00 | 0.00 |
| Quebec, Canada | 0.08 | 0.01 | 0.01 |
| Moscow City, Russian Fed. | 0.02 | 0.00 | 0.00 |
| South Africa (6) | -0.11 | 0.01 | 0.01 |
| Abu Dhabi, UAE | 0.12 | 0.01 | 0.01 |
| Dubai, UAE | -0.03 | 0.00 | 0.00 |

A dash (—) indicates comparable data not available.