

Appendix 15D: PIRLS 2021 Context Questionnaire Scales Based on Principals' Reports

Instruction Affected by Reading Resource Shortages

About the Scale

Students were scored according to their principals' responses regarding thirteen school and classroom resources on the *Instruction Affected by Reading Resource Shortages* scale. Cut scores divide the scale into three categories. Students in schools where instruction was **Not Affected** by resource shortages had a score at or above the cut score corresponding to their principals reporting that shortages affected instruction "not at all" for seven of the thirteen resources and "a little" for the other six, on average. Students in schools where instruction was **Affected A Lot** had a score at or below the cut score corresponding to their principals reporting that shortages affected instruction "a lot" for seven of the thirteen resources and "some" for the other six, on average. All other students attended schools where instruction was **Somewhat Affected** by resource shortages.

How much is your school's capacity to provide instruction affected by a shortage or inadequacy of the following?

	Not at all	A little	Some	A lot
A. General School Resources				
ACBG10AA ^T 1) Instructional materials (e.g., textbooks) -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
ACBG10AB ^T 2) Supplies (e.g., papers, pencils, materials) -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
ACBG10AC ^T 3) School buildings and grounds -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
ACBG10AD ^T 4) Heating/cooling and lighting systems -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
ACBG10AE ^T 5) Instructional space (e.g., classrooms) -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
ACBG10AF ^T 6) Technologically competent staff -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
ACBG10AG 7) Technology and media resources to support teaching -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
ACBG10AH 8) Technology and media resources to support student learning and expression -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
ACBG10AJ 9) Internet connection -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
B. Resources for Reading Instruction				
ACBG10BA ^T 10) Teachers with a specialization in reading -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
ACBG10BB ^T 11) Computer software/applications for reading instruction -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
ACBG10BC ^T 12) Library resources (books, ebooks, magazines, etc.) -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
ACBG10BD ^T 13) Instructional materials for reading (e.g., reading series, textbooks) -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Scale Cut Scores 11.0 7.0

^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 *Instruction Affected by Reading Resource Shortages* Scale

Item	delta	tau_1	tau_2	tau_3	Infit	Q-Index
ACBG10AA	-0.26427	-0.24118	-0.05757	0.29875	0.94	0.07
ACBG10AB	-0.65516	-0.59399	0.36508	0.22891	0.92	0.07
ACBG10AC	0.03505	-0.82995	0.09925	0.73070	1.11	0.10
ACBG10AD	-0.15590	-0.51017	0.04308	0.46709	1.00	0.07
ACBG10AE	0.09436	-0.63322	-0.02418	0.65740	1.04	0.09
ACBG10AF	0.20701	-1.42190	-0.06557	1.48747	0.97	0.09
ACBG10AG	0.29343	-1.48245	-0.01001	1.49246	0.86	0.08
ACBG10AH	0.32739	-1.68561	-0.01156	1.69717	0.95	0.09
ACBG10AJ	0.22953	-0.46622	-0.02952	0.49574	1.08	0.09
ACBG10BA	-0.11507	-1.05932	-0.06165	1.12097	1.16	0.12
ACBG10BB	0.23614	-1.73737	0.08800	1.64937	1.41	0.15
ACBG10BC	-0.03046	-1.35587	0.07931	1.27656	1.01	0.09
ACBG10BD	-0.20205	-1.03150	-0.05253	1.08403	0.80	0.06

Scale Transformation Constants for the PIRLS 2021 *Instruction Affected by Reading Resource Shortages* Scale

Scale Transformation Constants

A = 8.981884

B = 1.268457

Transformed Scale Score = 8.981884 + 1.268457 • Logit Scale Score

**Equivalence Table of the Raw Score and Transformed Scale Scores for the
PIRLS 2021 *Instruction Affected by Reading Resource Shortages* Scale**

Raw Score	Transformed Scale Score	Cutpoint
0	3.46925	
1	4.90722	
2	5.59729	
3	6.06469	
4	6.42218	
5	6.71386	
6	6.96147	7.0
7	7.17829	
8	7.37191	
9	7.54777	
10	7.70980	
11	7.86029	
12	8.00322	
13	8.13929	
14	8.26986	
15	8.39617	
16	8.51928	
17	8.64017	
18	8.75973	
19	8.87873	
20	8.99854	
21	9.11829	
22	9.24037	
23	9.36508	
24	9.49330	
25	9.62597	
26	9.76415	
27	9.90835	
28	10.06135	
29	10.22454	
30	10.40025	
31	10.59151	
32	10.80226	
33	11.03794	11.0
34	11.30655	
35	11.62098	
36	12.00306	
37	12.49677	
38	13.21407	
39	14.68053	

Cronbach's Alpha Reliability Coefficient and Principal Components Analysis of the Items in the PIRLS 2021 Instruction Affected by Reading Resource Shortages Scale

Country	Cronbach Alpha Reliability Coefficient	Percent of Variance Explained	Component Loadings for Each Item												
			ACBG10AA	ACBG10AB	ACBG10AC	ACBG10AD	ACBG10AE	ACBG10AF	ACBG10AG	ACBG10AH	ACBG10AJ	ACBG10BA	ACBG10BB	ACBG10BC	ACBG10BD
Albania	0.94	60	0.77	0.76	0.77	0.82	0.78	0.80	0.77	0.74	0.77	0.75	0.65	0.80	0.85
Australia	0.95	62	0.79	0.78	0.81	0.85	0.79	0.81	0.86	0.87	0.78	0.63	0.70	0.78	0.79
Austria	0.81	31	0.38	0.55	0.49	0.48	0.50	0.47	0.72	0.76	0.52	0.48	0.67	0.57	0.49
Azerbaijan	0.94	58	0.82	0.73	0.74	0.83	0.79	0.80	0.69	0.57	0.68	0.86	0.63	0.83	0.87
Bahrain	0.98	77	0.91	0.91	0.91	0.92	0.92	0.89	0.93	0.93	0.65	0.78	0.77	0.90	0.91
Belgium (Flemish)	0.83	35	0.61	0.47	0.48	0.50	0.57	0.58	0.67	0.71	0.58	0.44	0.67	0.67	0.66
Belgium (French)	0.84	35	0.58	0.46	0.29	0.29	0.41	0.62	0.76	0.80	0.59	0.57	0.70	0.63	0.69
Brazil	0.89	44	0.67	0.69	0.68	0.63	0.60	0.72	0.76	0.76	0.65	0.61	0.54	0.66	0.64
Bulgaria	0.88	52	0.93	0.85	0.69	0.93	0.72	0.35	0.61	0.56	0.87	0.84	0.20	0.49	0.89
Chinese Taipei	0.95	63	0.81	0.75	0.83	0.84	0.83	0.82	0.87	0.84	0.83	0.68	0.57	0.80	0.79
Croatia	0.91	50	0.76	0.76	0.75	0.80	0.78	0.77	0.77	0.71	0.60	0.62	0.39	0.63	0.75
Cyprus	0.92	51	0.72	0.68	0.74	0.74	0.78	0.85	0.80	0.73	0.67	0.62	0.53	0.58	0.80
Czech Republic	0.79	30	0.65	0.57	0.49	0.47	0.60	0.62	0.73	0.72	0.35	0.27	0.54	0.36	0.52
Denmark	0.89	45	0.69	0.68	0.56	0.52	0.54	0.69	0.78	0.76	0.67	0.54	0.73	0.73	0.76
Egypt	0.89	43	0.68	0.76	0.63	0.46	0.69	0.60	0.69	0.65	0.53	0.71	0.69	0.69	0.71
England	0.90	48	0.69	0.68	0.68	0.58	0.61	0.75	0.77	0.71	0.66	0.66	0.70	0.75	0.76
Finland	0.88	43	0.69	0.65	0.57	0.55	0.59	0.74	0.65	0.67	0.67	0.70	0.64	0.62	0.78
France	0.86	39	0.64	0.64	0.64	0.62	0.65	0.54	0.72	0.72	0.55	0.46	0.56	0.75	0.59
Georgia	0.93	53	0.69	0.74	0.70	0.75	0.74	0.73	0.72	0.76	0.71	0.65	0.66	0.79	0.79
Germany	0.85	37	0.51	0.61	0.59	0.63	0.58	0.72	0.76	0.78	0.46	0.33	0.62	0.61	0.55
Hong Kong SAR	0.92	53	0.68	0.65	0.78	0.78	0.78	0.81	0.81	0.72	0.70	0.64	0.62	0.73	0.74
Hungary	0.92	50	0.73	0.72	0.71	0.77	0.69	0.72	0.72	0.64	0.72	0.78	0.59	0.65	0.74
Iran, Islamic Rep. of	0.93	56	0.74	0.77	0.80	0.80	0.78	0.79	0.74	0.73	0.68	0.76	0.75	0.62	0.78
Ireland	0.89	44	0.63	0.61	0.66	0.59	0.75	0.67	0.75	0.71	0.49	0.59	0.69	0.66	0.75
Israel	0.95	64	0.83	0.82	0.75	0.83	0.73	0.81	0.85	0.78	0.73	0.81	0.81	0.72	0.87
Italy	0.87	40	0.53	0.61	0.63	0.60	0.61	0.61	0.70	0.70	0.50	0.65	0.67	0.60	0.74
Jordan	0.91	46	0.70	0.69	0.68	0.66	0.70	0.75	0.73	0.67	0.66	0.69	0.59	0.57	0.72
Kazakhstan	0.97	75	0.89	0.85	0.82	0.90	0.84	0.89	0.85	0.85	0.83	0.87	0.85	0.89	0.89
Kosovo	0.90	48	0.69	0.79	0.60	0.73	0.69	0.80	0.74	0.74	0.72	0.55	0.55	0.64	0.68
Latvia	0.90	48	0.63	0.71	0.72	0.75	0.74	0.80	0.67	0.68	0.69	0.68	0.31	0.77	0.75
Lithuania	0.89	44	0.75	0.64	0.40	0.48	0.60	0.70	0.68	0.68	0.75	0.68	0.76	0.68	0.75
Macao SAR	0.96	66	0.83	0.74	0.82	0.85	0.75	0.86	0.91	0.82	0.70	0.82	0.77	0.81	0.87
Malta	0.94	60	0.75	0.83	0.66	0.57	0.65	0.82	0.90	0.89	0.75	0.69	0.76	0.84	0.86
Montenegro	0.86	37	0.43	0.49	0.61	0.71	0.68	0.73	0.60	0.51	0.51	0.66	0.58	0.70	0.66
Morocco	0.84	35	0.58	0.61	0.44	0.53	0.43	0.58	0.66	0.66	0.60	0.62	0.62	0.69	0.64
Netherlands	0.87	43	0.74	0.82	0.63	0.53	0.63	0.67	0.72	0.69	0.79	0.57	0.43	0.58	0.56
New Zealand	0.90	48	0.72	0.82	0.57	0.73	0.52	0.63	0.73	0.65	0.66	0.64	0.68	0.79	0.78
North Macedonia	0.84	35	0.60	0.68	0.53	0.43	0.41	0.37	0.78	0.71	0.51	0.59	0.56	0.69	0.70
Northern Ireland	0.85	38	0.67	0.66	0.48	0.48	0.50	0.54	0.70	0.75	0.48	0.45	0.64	0.72	0.77

Cronbach's Alpha Reliability Coefficient and Principal Components Analysis of the Items in the PIRLS 2021 Instruction Affected by Reading Resource Shortages Scale

Country	Cronbach Alpha Reliability Coefficient	Percent of Variance Explained	Component Loadings for Each Item													
			ACBG10AA	ACBG10AB	ACBG10AC	ACBG10AD	ACBG10AE	ACBG10AF	ACBG10AG	ACBG10AH	ACBG10AJ	ACBG10BA	ACBG10BB	ACBG10BC	ACBG10BD	
Norway (5)	0.89	45	0.66	0.55	0.62	0.58	0.68	0.69	0.80	0.79	0.62	0.48	0.74	0.71	0.74	
Oman	0.96	69	0.81	0.80	0.71	0.83	0.84	0.88	0.89	0.90	0.72	0.87	0.79	0.86	0.87	
Poland	0.92	50	0.76	0.72	0.70	0.75	0.64	0.68	0.76	0.75	0.70	0.72	0.54	0.70	0.74	
Portugal	0.87	40	0.48	0.50	0.64	0.59	0.61	0.64	0.78	0.76	0.62	0.47	0.67	0.67	0.67	
Qatar	0.99	87	0.93	0.92	0.92	0.95	0.95	0.95	0.95	0.95	0.93	0.90	0.86	0.93	0.95	
Russian Federation	0.95	61	0.80	0.79	0.74	0.79	0.72	0.72	0.81	0.79	0.77	0.83	0.68	0.85	0.87	
Saudi Arabia	0.94	58	0.74	0.67	0.60	0.82	0.81	0.84	0.81	0.82	0.78	0.81	0.80	0.70	0.70	
Serbia	0.86	40	0.70	0.71	0.66	0.75	0.73	0.68	0.58	0.60	0.73	0.33	0.32	0.61	0.61	
Singapore	0.98	81	0.93	0.89	0.90	0.93	0.93	0.89	0.94	0.93	0.93	0.76	0.78	0.90	0.92	
Slovak Republic	0.87	40	0.69	0.57	0.62	0.60	0.68	0.72	0.74	0.67	0.70	0.48	0.46	0.48	0.71	
Slovenia	0.79	31	0.50	0.64	0.42	0.51	0.38	0.51	0.72	0.68	0.42	0.62	0.60	0.55	0.52	
South Africa	0.84	35	0.43	0.24	0.54	0.61	0.53	0.68	0.75	0.73	0.65	0.54	0.53	0.63	0.61	
Spain	0.92	51	0.70	0.75	0.72	0.78	0.74	0.68	0.80	0.78	0.73	0.62	0.62	0.59	0.74	
Sweden	0.90	45	0.74	0.61	0.61	0.67	0.61	0.66	0.66	0.63	0.66	0.67	0.78	0.60	0.79	
Turkiye	0.94	61	0.83	0.84	0.65	0.81	0.82	0.63	0.85	0.84	0.85	0.79	0.60	0.68	0.85	
United Arab Emirates	0.98	77	0.88	0.89	0.88	0.90	0.90	0.92	0.92	0.92	0.89	0.79	0.77	0.87	0.90	
United States	0.94	58	0.78	0.77	0.76	0.75	0.73	0.85	0.83	0.83	0.70	0.69	0.70	0.75	0.73	
Uzbekistan	0.96	69	0.87	0.79	0.73	0.85	0.85	0.87	0.84	0.83	0.80	0.87	0.80	0.85	0.86	
Benchmarking Participants																
Alberta, Canada	0.91	50	0.77	0.77	0.77	0.65	0.58	0.71	0.77	0.82	0.69	0.52	0.54	0.74	0.82	
British Columbia, Canada	0.92	50	0.71	0.78	0.78	0.74	0.75	0.71	0.79	0.77	0.73	0.60	0.57	0.63	0.62	
Newfoundland & Labrador, Can	0.90	49	0.60	0.75	0.65	0.68	0.46	0.63	0.73	0.76	0.66	0.78	0.83	0.77	0.75	
Quebec, Canada	0.90	47	0.69	0.66	0.72	0.64	0.64	0.71	0.72	0.69	0.67	0.62	0.62	0.75	0.74	
Moscow City, Russian Fed.	0.97	72	0.84	0.84	0.79	0.86	0.86	0.87	0.88	0.86	0.87	0.86	0.68	0.91	0.89	
South Africa (6)	0.86	40	0.31	0.10	0.55	0.60	0.55	0.67	0.76	0.76	0.75	0.65	0.68	0.76	0.66	
Abu Dhabi, UAE	0.97	74	0.86	0.89	0.87	0.89	0.87	0.90	0.88	0.88	0.88	0.77	0.77	0.80	0.88	
Dubai, UAE	0.98	79	0.90	0.89	0.82	0.92	0.85	0.90	0.95	0.94	0.92	0.76	0.88	0.90	0.93	

Relationship Between the PIRLS 2021 *Instruction Affected by Reading Resource Shortages* 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	0.07	0.01	0.02
Australia	0.07	0.01	0.01
Austria	0.03	0.00	0.00
Azerbaijan	-0.07	0.00	0.00
Bahrain	0.13	0.02	0.02
Belgium (Flemish)	0.06	0.00	0.00
Belgium (French)	0.02	0.00	0.00
Brazil	0.26	0.07	0.09
Bulgaria	0.14	0.02	0.01
Chinese Taipei	0.04	0.00	0.00
Croatia	-0.01	0.00	0.00
Cyprus	0.06	0.00	0.01
Czech Republic	0.04	0.00	0.00
Denmark	0.02	0.00	0.00
Egypt	0.03	0.00	0.01
England	0.05	0.00	0.00
Finland	0.10	0.01	0.02
France	0.16	0.02	0.02
Georgia	0.04	0.00	0.00
Germany	0.10	0.01	0.01
Hong Kong SAR	0.04	0.00	0.00
Hungary	-0.01	0.00	0.00
Iran, Islamic Rep. of	0.08	0.01	0.01
Ireland	0.06	0.00	0.01
Israel	0.22	0.05	0.04
Italy	0.11	0.01	0.00
Jordan	-0.10	0.01	0.01
Kazakhstan	0.03	0.00	0.00
Kosovo	-0.04	0.00	0.00
Latvia	-0.03	0.00	0.00
Lithuania	0.01	0.00	0.00
Macao SAR	0.01	0.00	0.00
Malta	0.09	0.01	0.01
Montenegro	-0.02	0.00	0.00
Morocco	-0.14	0.02	0.04
Netherlands	-0.02	0.00	0.00
New Zealand	0.13	0.02	0.01
North Macedonia	0.06	0.00	0.00
Northern Ireland	-0.02	0.00	0.00
Norway (5)	0.01	0.00	0.00

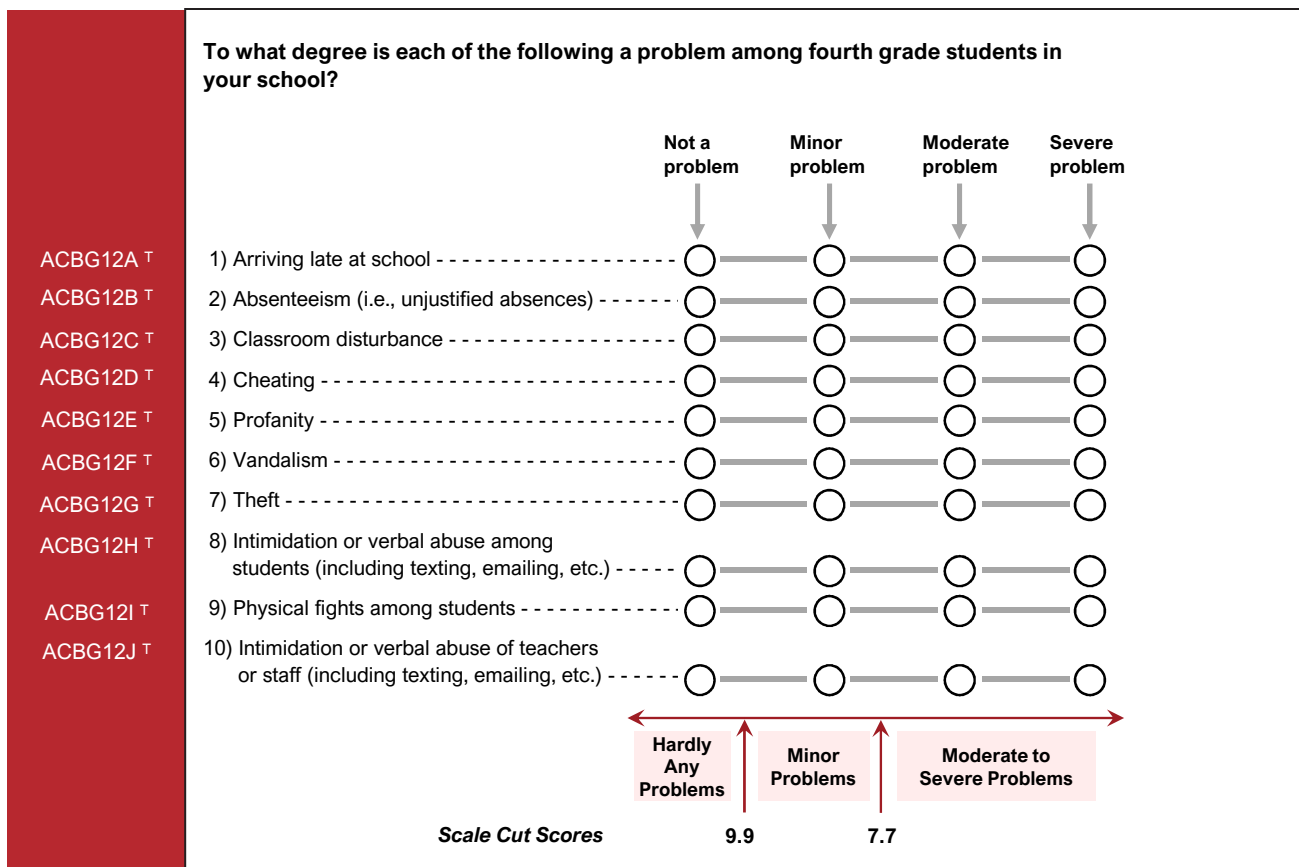
Relationship Between the PIRLS 2021 *Instruction Affected by Reading Resource Shortages* Scale and PIRLS 2021 Achievement

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	0.04	0.00	0.00
Poland	0.04	0.00	0.00
Portugal	0.08	0.01	0.01
Qatar	0.11	0.01	0.01
Russian Federation	0.11	0.01	0.02
Saudi Arabia	0.02	0.00	0.01
Serbia	0.05	0.00	0.01
Singapore	0.01	0.00	0.00
Slovak Republic	0.08	0.01	0.01
Slovenia	-0.02	0.00	0.00
South Africa	0.33	0.11	0.13
Spain	0.11	0.01	0.01
Sweden	-0.01	0.00	0.00
Turkiye	0.07	0.00	0.00
United Arab Emirates	0.15	0.02	0.05
United States	0.09	0.01	0.03
Uzbekistan	0.04	0.00	0.00
International Median	0.04	0.00	0.00
Benchmarking Participants			
Alberta, Canada	0.02	0.00	0.01
British Columbia, Canada	0.02	0.00	0.01
Newfoundland & Labrador, Can.	-0.04	0.00	0.01
Quebec, Canada	0.06	0.00	0.00
Moscow City, Russian Fed.	-0.06	0.00	0.01
South Africa (6)	0.19	0.03	0.09
Abu Dhabi, UAE	0.13	0.02	0.06
Dubai, UAE	0.14	0.02	0.01

School Discipline

About the Scale

Students were scored according to their principals' reports regarding ten potential problems on the *School Discipline* scale. Cut scores divide the scale into three categories. Students in schools with **Hardly Any Problems** had a score at or above the cut score corresponding to their principals reporting that five of the ten issues are "not a problem" and the other five are a "minor problem," on average. Students in schools with **Moderate to Severe Problems** had a score at or below the cut score corresponding to their principals reporting that five of the ten issues are a "moderate problem" and the other five are a "minor problem," on average. All other students were in schools with **Minor Problems**.



^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 Discipline* Scale

Item	delta	tau_1	tau_2	tau_3	Infit	Q-Index
ACBG12A	-0.23828	-2.20334	-0.52956	2.73290	1.27	0.11
ACBG12B	0.33084	-1.25408	-0.65783	1.91191	1.27	0.10
ACBG12C	0.71870	-2.37570	-0.27686	2.65256	1.01	0.08
ACBG12D	-0.39091	-1.40774	-0.74035	2.14809	1.09	0.10
ACBG12E	0.64841	-1.87833	-0.41473	2.29306	0.89	0.06
ACBG12F	-0.25801	-0.33865	-0.82887	1.16752	0.80	0.04
ACBG12G	-0.56751	0.41446	-1.23699	0.82253	0.88	0.04
ACBG12H	0.25786	-1.41208	-0.65737	2.06945	1.00	0.07
ACBG12I	0.16616	-1.51422	-0.77306	2.28728	0.86	0.05
ACBG12J	-0.66726	0.19066	-0.94141	0.75075	0.88	0.05

Scale Transformation Constants for the PIRLS 2021 *School Discipline* Scale

Scale Transformation Constants

A = 7.915470

B = 0.937182

Transformed Scale Score = 7.915470 + 0.937182 • Logit Scale Score

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

Raw Score	Transformed Scale Score	Cutpoint
0	3.78572	
1	4.85879	
2	5.37081	
3	5.71319	
4	5.97355	
5	6.18536	
6	6.36642	
7	6.52697	
8	6.67362	
9	6.81100	
10	6.94115	
11	7.07032	
12	7.19881	
13	7.32885	
14	7.46268	
15	7.60267	7.7
16	7.75156	
17	7.91145	
18	8.08628	
19	8.27854	
20	8.49279	
21	8.73047	
22	8.99347	
23	9.28160	
24	9.59393	
25	9.92826	9.9
26	10.28902	
27	10.68937	
28	11.16117	
29	11.79092	
30	12.96150	

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

Country	Cronbach's Alpha Reliability Coefficient	Percent of Variance Explained	Component Loadings for Each Item									
			ACBG12A	ACBG12B	ACBG12C	ACBG12D	ACBG12E	ACBG12F	ACBG12G	ACBG12H	ACBG12I	ACBG12J
Albania	0.97	77	0.79	0.84	0.86	0.84	0.86	0.94	0.94	0.91	0.86	0.91
Australia	0.88	50	0.66	0.70	0.72	0.63	0.80	0.69	0.62	0.71	0.77	0.70
Austria	0.89	51	0.58	0.66	0.72	0.64	0.76	0.76	0.71	0.76	0.82	0.68
Azerbaijan	0.97	80	0.70	0.81	0.90	0.77	0.94	0.97	0.95	0.94	0.93	0.97
Bahrain	0.96	74	0.69	0.65	0.77	0.91	0.90	0.94	0.95	0.92	0.89	0.93
Belgium (Flemish)	0.89	51	0.53	0.61	0.70	0.65	0.83	0.74	0.65	0.83	0.79	0.78
Belgium (French)	0.85	45	0.49	0.61	0.63	0.55	0.76	0.70	0.69	0.70	0.82	0.69
Brazil	0.84	45	0.51	0.56	0.64	0.67	0.74	0.83	0.72	0.67	0.72	0.56
Bulgaria	0.95	68	0.78	0.86	0.83	0.85	0.76	0.83	0.87	0.74	0.87	0.88
Chinese Taipei	0.91	57	0.54	0.58	0.73	0.77	0.82	0.83	0.78	0.86	0.79	0.75
Croatia	0.89	51	0.73	0.69	0.75	0.73	0.72	0.81	0.70	0.74	0.74	0.51
Cyprus	0.90	55	0.62	0.66	0.73	0.70	0.78	0.81	0.76	0.74	0.77	0.84
Czech Republic	0.86	47	0.53	0.62	0.49	0.71	0.61	0.78	0.79	0.75	0.77	0.74
Denmark	0.83	41	0.58	0.69	0.68	0.50	0.66	0.63	0.61	0.71	0.76	0.51
Egypt	0.95	68	0.72	0.70	0.80	0.83	0.88	0.86	0.88	0.85	0.88	0.86
England	0.86	48	0.62	0.60	0.73	0.65	0.74	0.74	0.67	0.76	0.75	0.65
Finland	0.86	47	0.51	0.53	0.74	0.60	0.75	0.80	0.70	0.74	0.71	0.68
France	0.86	45	0.50	0.60	0.72	0.62	0.80	0.68	0.66	0.80	0.78	0.50
Georgia	0.95	71	0.60	0.74	0.85	0.71	0.90	0.90	0.92	0.91	0.89	0.92
Germany	0.87	46	0.66	0.72	0.76	0.53	0.80	0.76	0.59	0.66	0.72	0.52
Hong Kong SAR	0.87	48	0.71	0.69	0.59	0.69	0.79	0.67	0.73	0.72	0.68	0.64
Hungary	0.89	52	0.59	0.72	0.70	0.61	0.77	0.80	0.76	0.76	0.82	0.65
Iran, Islamic Rep. of	0.93	62	0.62	0.67	0.80	0.81	0.83	0.83	0.85	0.87	0.81	0.75
Ireland	0.86	47	0.63	0.54	0.72	0.51	0.86	0.69	0.44	0.77	0.86	0.72
Israel	0.94	64	0.57	0.64	0.75	0.87	0.83	0.89	0.86	0.83	0.88	0.82
Italy	0.96	74	0.73	0.83	0.77	0.81	0.82	0.94	0.92	0.91	0.92	0.93
Jordan	0.94	66	0.55	0.69	0.80	0.85	0.87	0.85	0.88	0.86	0.87	0.83
Kazakhstan	0.97	80	0.77	0.90	0.89	0.67	0.92	0.96	0.96	0.96	0.95	0.93
Kosovo	0.95	71	0.73	0.75	0.77	0.85	0.85	0.91	0.90	0.87	0.88	0.86
Latvia	0.76	32	0.56	0.54	0.58	0.43	0.68	0.58	0.36	0.73	0.62	0.53
Lithuania	0.83	42	0.61	0.61	0.62	0.61	0.73	0.72	0.71	0.65	0.57	0.64
Macao SAR	0.96	73	0.73	0.88	0.81	0.86	0.87	0.81	0.91	0.87	0.85	0.93
Malta	0.85	47	0.47	0.47	0.72	0.72	0.80	0.71	0.69	0.60	0.83	0.75
Montenegro	0.94	67	0.74	0.65	0.72	0.84	0.80	0.94	0.88	0.90	0.90	0.75
Morocco	0.95	71	0.61	0.79	0.82	0.88	0.91	0.89	0.87	0.91	0.89	0.80
Netherlands	0.87	47	0.68	0.56	0.72	0.61	0.83	0.68	0.58	0.77	0.75	0.60
New Zealand	0.89	52	0.69	0.70	0.72	0.63	0.79	0.74	0.69	0.73	0.74	0.78
North Macedonia	0.91	61	0.57	0.72	0.77	0.83	0.86	0.83	0.78	0.81	0.82	0.77
Northern Ireland	0.84	45	0.36	0.48	0.54	0.73	0.78	0.78	0.73	0.72	0.73	0.72

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

Country	Cronbach's Alpha Reliability Coefficient	Percent of Variance Explained	Component Loadings for Each Item									
			ACBG12A	ACBG12B	ACBG12C	ACBG12D	ACBG12E	ACBG12F	ACBG12G	ACBG12H	ACBG12I	ACBG12J
Norway (5)	0.84	42	0.52	0.54	0.67	0.61	0.71	0.70	0.56	0.72	0.68	0.71
Oman	0.97	79	0.77	0.84	0.84	0.92	0.92	0.94	0.94	0.94	0.87	0.93
Poland	0.84	42	0.54	0.59	0.71	0.63	0.78	0.73	0.58	0.71	0.72	0.45
Portugal	0.92	60	0.49	0.72	0.77	0.69	0.77	0.86	0.87	0.85	0.84	0.83
Qatar	0.94	67	0.63	0.67	0.70	0.88	0.88	0.91	0.84	0.86	0.87	0.87
Russian Federation	0.90	54	0.72	0.66	0.70	0.70	0.74	0.75	0.77	0.77	0.73	0.76
Saudi Arabia	0.98	83	0.73	0.85	0.90	0.92	0.96	0.95	0.97	0.96	0.94	0.93
Serbia	0.88	51	0.70	0.48	0.79	0.79	0.73	0.76	0.75	0.78	0.78	0.48
Singapore	0.86	47	0.64	0.57	0.62	0.66	0.79	0.75	0.69	0.72	0.73	0.63
Slovak Republic	0.88	50	0.75	0.71	0.68	0.70	0.77	0.76	0.76	0.68	0.64	0.63
Slovenia	0.90	54	0.71	0.65	0.73	0.71	0.75	0.83	0.80	0.76	0.68	0.70
South Africa	0.90	51	0.56	0.64	0.69	0.73	0.82	0.79	0.82	0.73	0.76	0.56
Spain	0.95	69	0.67	0.77	0.76	0.80	0.76	0.90	0.92	0.86	0.89	0.93
Sweden	0.81	37	0.59	0.63	0.62	0.45	0.70	0.64	0.43	0.61	0.69	0.65
Turkiye	0.97	81	0.76	0.79	0.90	0.90	0.92	0.94	0.96	0.95	0.92	0.93
United Arab Emirates	0.97	79	0.75	0.82	0.86	0.89	0.93	0.95	0.93	0.92	0.90	0.93
United States	0.86	46	0.58	0.61	0.83	0.46	0.85	0.52	0.69	0.74	0.78	0.62
Uzbekistan	0.99	88	0.87	0.94	0.96	0.82	0.95	0.97	0.97	0.98	0.97	0.97
Benchmarking Participants												
Alberta, Canada	0.86	46	0.65	0.62	0.71	0.63	0.77	0.67	0.61	0.74	0.74	0.64
British Columbia, Canada	0.89	52	0.56	0.62	0.71	0.68	0.86	0.80	0.67	0.72	0.77	0.76
Newfoundland & Labrador, Can.	0.82	40	0.47	0.52	0.77	0.42	0.74	0.71	0.55	0.69	0.68	0.67
Quebec, Canada	0.83	42	0.40	0.62	0.71	0.61	0.78	0.76	0.61	0.67	0.64	0.59
Moscow City, Russian Fed.	0.80	36	0.51	0.60	0.59	0.63	0.73	0.56	0.58	0.62	0.62	0.48
South Africa (6)	0.92	57	0.66	0.65	0.74	0.78	0.82	0.84	0.83	0.79	0.79	0.59
Abu Dhabi, UAE	0.96	73	0.70	0.74	0.84	0.83	0.90	0.94	0.90	0.89	0.89	0.91
Dubai, UAE	0.95	72	0.67	0.79	0.85	0.89	0.91	0.90	0.87	0.87	0.84	0.89

Relationship Between the PIRLS 2021 *School Discipline* 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	0.19	0.04	0.02
Austria	0.07	0.01	0.01
Azerbaijan	-0.04	0.00	0.02
Bahrain	0.07	0.01	0.01
Belgium (Flemish)	0.14	0.02	0.02
Belgium (French)	0.13	0.02	0.02
Brazil	0.14	0.02	0.01
Bulgaria	0.20	0.04	0.06
Chinese Taipei	0.06	0.00	0.01
Croatia	0.04	0.00	0.01
Cyprus	0.10	0.01	0.01
Czech Republic	0.11	0.01	0.01
Denmark	0.14	0.02	0.01
Egypt	0.05	0.00	0.02
England	0.16	0.03	0.02
Finland	0.11	0.01	0.01
France	0.19	0.04	0.03
Georgia	-0.01	0.00	0.00
Germany	0.19	0.03	0.03
Hong Kong SAR	0.11	0.01	0.01
Hungary	0.24	0.06	0.06
Iran, Islamic Rep. of	0.14	0.02	0.01
Ireland	0.24	0.06	0.04
Israel	0.13	0.02	0.01
Italy	0.11	0.01	0.01
Jordan	0.01	0.00	0.02
Kazakhstan	0.02	0.00	0.00
Kosovo	0.02	0.00	0.00
Latvia	0.02	0.00	0.00
Lithuania	-0.01	0.00	0.00
Macao SAR	0.13	0.02	0.01
Malta	0.07	0.00	0.01
Montenegro	0.04	0.00	0.01
Morocco	-0.05	0.00	0.00
Netherlands	0.13	0.02	0.00
New Zealand	0.29	0.08	0.06
North Macedonia	0.17	0.03	0.03
Northern Ireland	0.16	0.03	0.02
Norway (5)	0.08	0.01	0.00
Oman	0.08	0.01	0.01

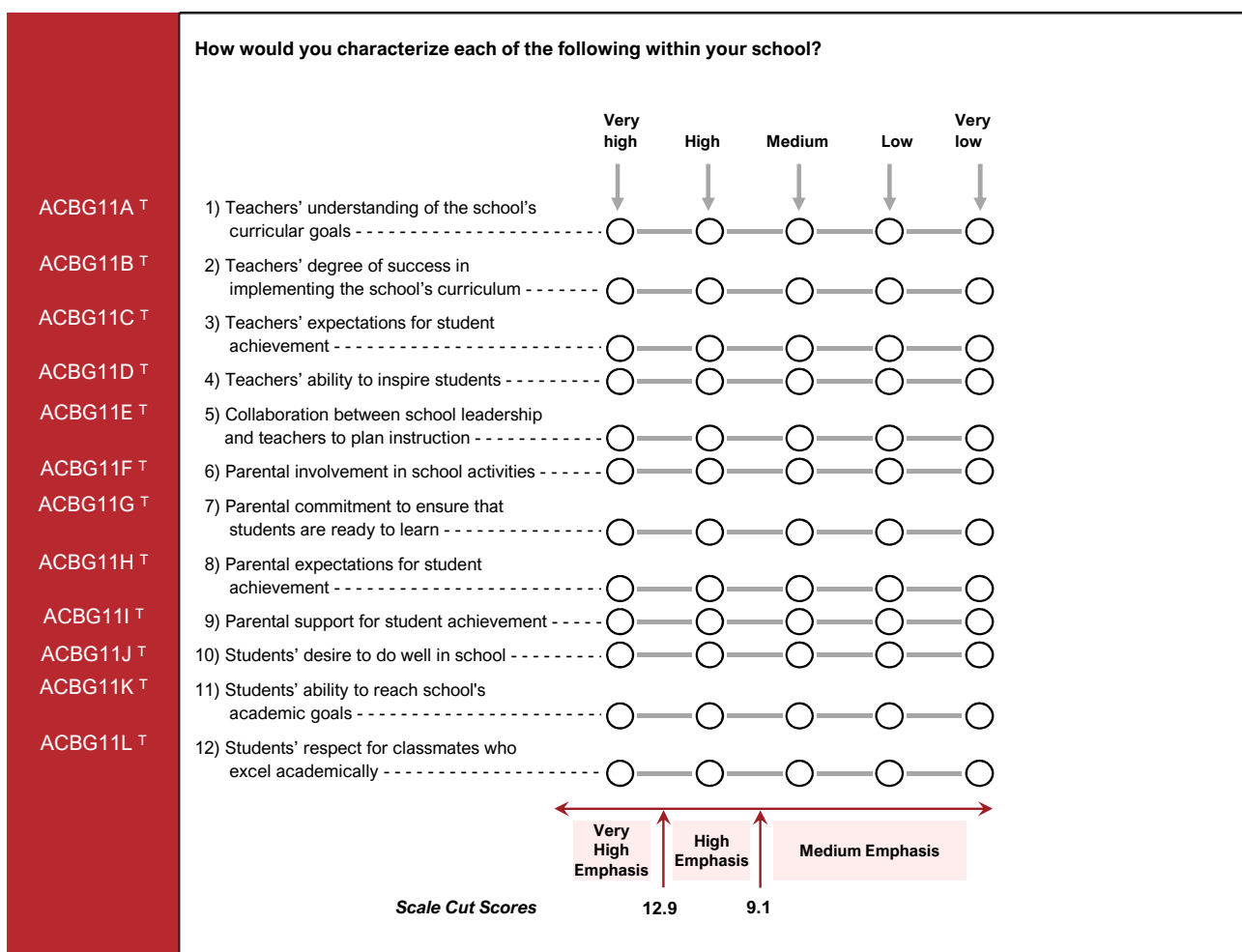
Relationship Between the PIRLS 2021 *School Discipline* Scale and PIRLS 2021 Achievement

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	
Poland	0.00	0.00	0.00
Portugal	0.08	0.01	0.01
Qatar	0.03	0.00	0.00
Russian Federation	-0.01	0.00	0.01
Saudi Arabia	0.11	0.01	0.02
Serbia	0.11	0.01	0.01
Singapore	0.06	0.00	0.00
Slovak Republic	0.15	0.02	0.02
Slovenia	0.01	0.00	0.00
South Africa	0.36	0.13	0.10
Spain	0.13	0.02	0.01
Sweden	0.11	0.01	0.01
Turkiye	0.08	0.01	0.01
United Arab Emirates	0.24	0.06	0.06
United States	0.34	0.12	0.11
Uzbekistan	-0.02	0.00	0.00
International Median	0.11	0.01	0.01
Benchmarking Participants			
Alberta, Canada	0.15	0.02	0.02
British Columbia, Canada	0.16	0.03	0.02
Newfoundland & Labrador, Can.	0.08	0.01	0.01
Quebec, Canada	0.11	0.01	0.01
Moscow City, Russian Fed.	0.04	0.00	0.00
South Africa (6)	0.27	0.07	0.05
Abu Dhabi, UAE	0.33	0.11	0.13
Dubai, UAE	0.25	0.06	0.04

School Emphasis on Academic Success – Principals' Reports

About the Scale¹

Students were scored according to their principals' 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 principals 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 – Principals’ Reports Scale*

Item	delta	tau_1	tau_2	tau_3	Infit	Q-Index
ACBG11A	-1.08487	-2.86877	-0.17533	3.04410	1.10	0.15
ACBG11B	-0.85214	-3.47904	-0.01647	3.49551	0.93	0.12
ACBG11C	-0.64834	-3.30328	-0.11113	3.41441	0.99	0.14
ACBG11D	-0.82106	-3.41834	-0.01811	3.43645	1.05	0.13
ACBG11E	-0.87430	-2.36794	-0.28810	2.65604	1.19	0.16
ACBG11F	1.13582	-2.52956	0.03476	2.49480	1.10	0.13
ACBG11G	1.29985	-2.79990	0.10292	2.69698	0.86	0.08
ACBG11H	0.01651	-2.62667	-0.17545	2.80212	1.15	0.13
ACBG11I	1.20369	-3.00189	0.17225	2.82964	0.85	0.09
ACBG11J	0.11323	-3.49329	0.11348	3.37981	0.90	0.11
ACBG11K	0.67654	-3.90677	0.16814	3.73863	0.88	0.10
ACBG11L	-0.16493	-3.13229	-0.12203	3.25432	1.06	0.15

Scale Transformation Constants for the PIRLS 2021 *School Emphasis on Academic Success – Principals’ Reports Scale*

Scale Transformation Constants

A = 9.088617

B = 1.189351

Transformed Scale Score = 9.088617 + 1.189351 • Logit Scale Score

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

Raw Score	Transformed Scale Score	Cutpoint
0	1.12058	
1	2.57153	
2	3.33227	
3	3.89458	
4	4.36672	
5	4.78802	
6	5.17901	
7	5.55043	
8	5.90757	
9	6.25375	
10	6.58953	
11	6.91586	
12	7.23401	
13	7.54580	
14	7.85350	
15	8.15958	
16	8.46634	
17	8.77560	
18	9.08841	9.1
19	9.40492	
20	9.72437	
21	10.04545	
22	10.36678	
23	10.68733	
24	11.00684	
25	11.32571	
26	11.64465	
27	11.96624	
28	12.29284	
29	12.62811	
30	12.97735	12.9
31	13.34892	
32	13.75269	
33	14.21150	
34	14.76695	
35	15.52295	
36	16.97388	

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

Country	Cronbach Alpha Reliability Coefficient	Percent of Variance Explained	Component Loadings for Each Item											
			ACBG11A	ACBG11B	ACBG11C	ACBG11D	ACBG11E	ACBG11F	ACBG11G	ACBG11H	ACBG11I	ACBG11J	ACBG11K	ACBG11L
Albania	0.87	42	0.59	0.73	0.59	0.65	0.52	0.60	0.73	0.70	0.75	0.65	0.67	0.55
Australia	0.91	52	0.68	0.73	0.76	0.67	0.60	0.62	0.79	0.76	0.77	0.78	0.77	0.71
Austria	0.83	37	0.50	0.59	0.57	0.48	0.52	0.70	0.76	0.56	0.71	0.59	0.68	0.53
Azerbaijan	0.88	45	0.68	0.78	0.70	0.71	0.55	0.53	0.71	0.71	0.72	0.71	0.72	0.45
Bahrain	0.92	56	0.70	0.74	0.76	0.76	0.74	0.78	0.76	0.72	0.78	0.81	0.75	0.65
Belgium (Flemish)	0.84	37	0.44	0.64	0.61	0.56	0.60	0.59	0.64	0.60	0.68	0.72	0.66	0.53
Belgium (French)	0.87	43	0.43	0.64	0.61	0.67	0.47	0.73	0.81	0.53	0.83	0.65	0.74	0.60
Brazil	0.91	51	0.68	0.71	0.62	0.70	0.62	0.78	0.78	0.77	0.79	0.77	0.73	0.59
Bulgaria	0.92	54	0.55	0.68	0.75	0.68	0.56	0.71	0.83	0.72	0.82	0.84	0.83	0.74
Chinese Taipei	0.92	53	0.72	0.58	0.78	0.76	0.68	0.65	0.75	0.71	0.78	0.77	0.80	0.75
Croatia	0.87	43	0.63	0.64	0.63	0.65	0.64	0.66	0.73	0.52	0.74	0.71	0.66	0.58
Cyprus	0.90	48	0.48	0.73	0.72	0.49	0.52	0.53	0.81	0.79	0.81	0.82	0.79	0.69
Czech Republic	0.84	37	0.49	0.66	0.49	0.61	0.50	0.62	0.74	0.63	0.71	0.68	0.63	0.41
Denmark	0.91	50	0.61	0.63	0.70	0.68	0.53	0.68	0.78	0.74	0.80	0.78	0.82	0.68
Egypt	0.90	47	0.66	0.70	0.59	0.63	0.60	0.63	0.79	0.75	0.75	0.71	0.75	0.66
England	0.90	48	0.59	0.67	0.67	0.56	0.64	0.76	0.80	0.76	0.80	0.69	0.73	0.61
Finland	0.88	43	0.42	0.59	0.75	0.62	0.61	0.65	0.73	0.69	0.76	0.73	0.67	0.62
France	0.84	37	0.36	0.51	0.43	0.49	0.47	0.73	0.81	0.56	0.79	0.67	0.78	0.48
Georgia	0.89	46	0.68	0.71	0.62	0.74	0.64	0.73	0.78	0.53	0.78	0.68	0.62	0.54
Germany	0.86	40	0.52	0.59	0.69	0.47	0.45	0.67	0.80	0.64	0.72	0.58	0.75	0.58
Hong Kong SAR	0.91	52	0.71	0.70	0.77	0.72	0.60	0.73	0.82	0.66	0.80	0.76	0.78	0.53
Hungary	0.86	41	0.27	0.49	0.43	0.51	0.28	0.72	0.82	0.77	0.82	0.74	0.74	0.70
Iran, Islamic Rep. of	0.91	50	0.65	0.71	0.67	0.66	0.62	0.75	0.75	0.65	0.76	0.74	0.75	0.72
Ireland	0.93	55	0.68	0.74	0.80	0.55	0.60	0.73	0.79	0.82	0.79	0.81	0.83	0.70
Israel	0.89	45	0.66	0.65	0.68	0.66	0.63	0.65	0.73	0.71	0.75	0.74	0.63	0.53
Italy	0.84	37	0.56	0.63	0.54	0.65	0.61	0.53	0.69	0.61	0.64	0.61	0.59	0.60
Jordan	0.93	56	0.71	0.71	0.72	0.68	0.60	0.76	0.81	0.79	0.80	0.81	0.83	0.77
Kazakhstan	0.91	51	0.69	0.61	0.73	0.64	0.68	0.73	0.78	0.73	0.77	0.73	0.78	0.68
Kosovo	0.90	48	0.59	0.69	0.71	0.74	0.74	0.65	0.71	0.72	0.73	0.64	0.71	0.71
Latvia	0.85	39	0.69	0.70	0.48	0.69	0.71	0.65	0.68	0.35	0.68	0.56	0.65	0.55
Lithuania	0.87	42	0.55	0.70	0.70	0.73	0.74	0.54	0.70	0.60	0.67	0.61	0.67	0.53
Macao SAR	0.92	55	0.78	0.81	0.75	0.70	0.76	0.67	0.76	0.82	0.69	0.78	0.65	0.72
Malta	0.85	39	0.57	0.69	0.69	0.43	0.46	0.42	0.71	0.76	0.76	0.74	0.58	0.50
Montenegro	0.85	39	0.62	0.67	0.63	0.69	0.66	0.78	0.65	0.10	0.70	0.61	0.62	0.55
Morocco	0.88	44	0.69	0.72	0.44	0.68	0.66	0.66	0.77	0.61	0.72	0.71	0.75	0.49
Netherlands	0.86	40	0.63	0.68	0.63	0.58	0.62	0.66	0.68	0.60	0.70	0.65	0.58	0.51
New Zealand	0.92	55	0.54	0.69	0.73	0.70	0.61	0.70	0.83	0.80	0.83	0.82	0.83	0.74
North Macedonia	0.92	52	0.60	0.74	0.74	0.80	0.62	0.71	0.82	0.55	0.83	0.73	0.82	0.65
Northern Ireland	0.89	46	0.59	0.66	0.76	0.64	0.60	0.72	0.75	0.76	0.76	0.66	0.65	0.51

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

Country	Cronbach Alpha Reliability Coefficient	Percent of Variance Explained	Component Loadings for Each Item											
			ACBG11A	ACBG11B	ACBG11C	ACBG11D	ACBG11E	ACBG11F	ACBG11G	ACBG11H	ACBG11I	ACBG11J	ACBG11K	ACBG11L
Norway (5)	0.86	39	0.62	0.69	0.64	0.64	0.66	0.60	0.69	0.56	0.63	0.60	0.67	0.48
Oman	0.90	49	0.49	0.59	0.67	0.67	0.68	0.72	0.77	0.79	0.82	0.75	0.70	0.69
Poland	0.90	49	0.61	0.74	0.65	0.75	0.66	0.61	0.77	0.63	0.76	0.80	0.77	0.61
Portugal	0.91	50	0.66	0.70	0.78	0.73	0.64	0.73	0.74	0.79	0.69	0.69	0.73	0.62
Qatar	0.90	49	0.59	0.66	0.77	0.72	0.64	0.71	0.79	0.69	0.73	0.76	0.74	0.58
Russian Federation	0.88	43	0.68	0.70	0.69	0.76	0.69	0.64	0.69	0.34	0.73	0.62	0.70	0.53
Saudi Arabia	0.90	51	0.67	0.66	0.69	0.66	0.67	0.74	0.71	0.51	0.82	0.81	0.80	0.73
Serbia	0.87	43	0.69	0.77	0.59	0.74	0.58	0.68	0.73	0.34	0.70	0.68	0.63	0.65
Singapore	0.91	51	0.61	0.63	0.75	0.70	0.53	0.72	0.82	0.80	0.82	0.81	0.77	0.53
Slovak Republic	0.87	42	0.47	0.66	0.59	0.56	0.43	0.68	0.80	0.67	0.72	0.76	0.76	0.57
Slovenia	0.84	38	0.77	0.78	0.67	0.77	0.69	0.33	0.60	0.27	0.50	0.70	0.44	0.62
South Africa	0.89	47	0.65	0.64	0.70	0.68	0.68	0.65	0.75	0.54	0.74	0.71	0.76	0.68
Spain	0.89	46	0.60	0.69	0.70	0.55	0.50	0.73	0.81	0.78	0.79	0.67	0.71	0.58
Sweden	0.90	49	0.67	0.74	0.74	0.57	0.52	0.68	0.75	0.82	0.77	0.71	0.77	0.58
Turkiye	0.91	50	0.64	0.74	0.70	0.63	0.54	0.76	0.84	0.67	0.82	0.69	0.76	0.65
United Arab Emirates	0.94	60	0.79	0.82	0.81	0.78	0.74	0.70	0.78	0.70	0.79	0.78	0.83	0.74
United States	0.93	58	0.68	0.77	0.74	0.79	0.67	0.84	0.87	0.83	0.81	0.61	0.83	0.69
Uzbekistan	0.91	50	0.72	0.70	0.74	0.66	0.60	0.73	0.67	0.78	0.79	0.70	0.72	0.62
Benchmarking Participants														
Alberta, Canada	0.88	44	0.45	0.52	0.62	0.65	0.65	0.72	0.73	0.71	0.69	0.73	0.70	0.69
British Columbia, Canada	0.89	47	0.65	0.73	0.71	0.64	0.55	0.70	0.76	0.73	0.73	0.62	0.76	0.60
Newfoundland & Labrador, Can	0.88	46	0.52	0.52	0.69	0.67	0.56	0.55	0.72	0.78	0.79	0.78	0.73	0.73
Quebec, Canada	0.86	40	0.50	0.64	0.58	0.62	0.53	0.62	0.77	0.68	0.82	0.69	0.58	0.52
Moscow City, Russian Fed.	0.87	41	0.72	0.70	0.66	0.70	0.62	0.57	0.63	0.52	0.69	0.66	0.71	0.49
South Africa (6)	0.91	50	0.60	0.56	0.69	0.70	0.73	0.69	0.83	0.68	0.82	0.72	0.76	0.68
Abu Dhabi, UAE	0.94	61	0.78	0.83	0.78	0.79	0.74	0.73	0.79	0.71	0.78	0.82	0.84	0.77
Dubai, UAE	0.95	64	0.78	0.87	0.85	0.80	0.75	0.72	0.84	0.78	0.85	0.80	0.83	0.74

Relationship Between the PIRLS 2021 *School Emphasis on Academic Success – Principals’ 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	0.21	0.04	0.05
Australia	0.21	0.05	0.03
Austria	0.15	0.02	0.02
Azerbaijan	-0.04	0.00	0.00
Bahrain	0.15	0.02	0.01
Belgium (Flemish)	0.13	0.02	0.02
Belgium (French)	0.22	0.05	0.03
Brazil	0.23	0.05	0.05
Bulgaria	0.34	0.12	0.08
Chinese Taipei	0.14	0.02	0.02
Croatia	0.01	0.00	0.00
Cyprus	0.20	0.04	0.04
Czech Republic	0.15	0.02	0.03
Denmark	0.17	0.03	0.02
Egypt	0.18	0.03	0.01
England	0.15	0.02	0.03
Finland	0.15	0.02	0.01
France	0.17	0.03	0.03
Georgia	0.07	0.00	0.00
Germany	0.24	0.06	0.04
Hong Kong SAR	0.12	0.01	0.01
Hungary	0.28	0.08	0.04
Iran, Islamic Rep. of	0.16	0.03	0.02
Ireland	0.18	0.03	0.03
Israel	0.08	0.01	0.01
Italy	0.06	0.00	0.01
Jordan	0.18	0.03	0.04
Kazakhstan	0.03	0.00	0.00
Kosovo	0.10	0.01	0.01
Latvia	0.06	0.00	0.02
Lithuania	0.07	0.01	0.01
Macao SAR	0.20	0.04	0.03
Malta	0.17	0.03	0.03
Montenegro	0.05	0.00	0.00
Morocco	0.16	0.03	0.02
Netherlands	0.14	0.02	0.01
New Zealand	0.28	0.08	0.07
North Macedonia	0.14	0.02	0.01
Northern Ireland	0.20	0.04	0.03
Norway (5)	0.09	0.01	0.02

Relationship Between the PIRLS 2021 School Emphasis on Academic Success – Principals’ 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	0.11	0.01	0.01
Poland	0.10	0.01	0.01
Portugal	0.22	0.05	0.03
Qatar	0.17	0.03	0.03
Russian Federation	0.14	0.02	0.01
Saudi Arabia	0.15	0.02	0.01
Serbia	0.17	0.03	0.02
Singapore	0.19	0.04	0.03
Slovak Republic	0.20	0.04	0.03
Slovenia	0.04	0.00	0.00
South Africa	0.29	0.08	0.05
Spain	0.12	0.01	0.01
Sweden	0.25	0.06	0.04
Turkiye	0.29	0.08	0.09
United Arab Emirates	0.34	0.12	0.10
United States	0.29	0.09	0.08
Uzbekistan	0.08	0.01	0.00
International Median	0.16	0.03	0.02
Benchmarking Participants			
Alberta, Canada	0.12	0.02	0.01
British Columbia, Canada	0.24	0.06	0.04
Newfoundland & Labrador, Can.	0.18	0.03	0.04
Quebec, Canada	0.17	0.03	0.02
Moscow City, Russian Fed.	0.07	0.00	0.00
South Africa (6)	0.18	0.03	0.02
Abu Dhabi, UAE	0.39	0.15	0.14
Dubai, UAE	0.25	0.06	0.09