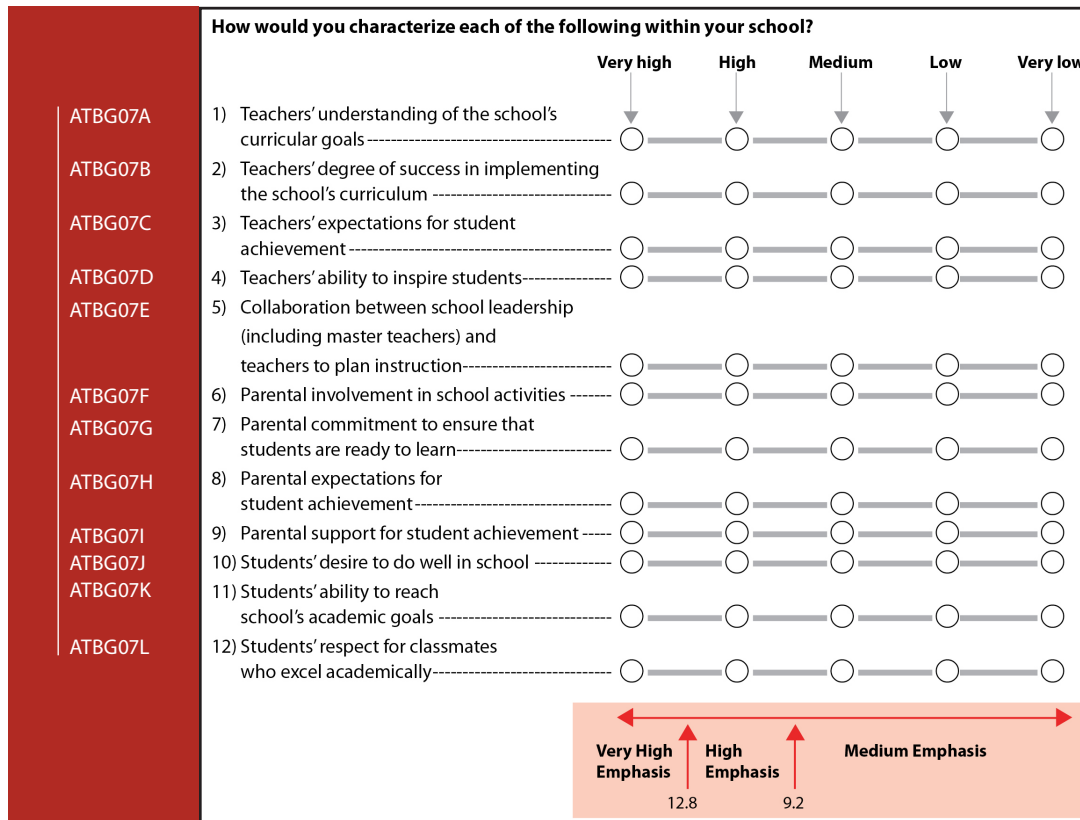


School Emphasis on Academic Success – Teachers’ Reports Scale

The *School Emphasis on Academic Success – Teachers’ Reports* (EAS) scale was created based on teachers’ responses characterizing the 12 aspects of school climate described below.

Items in the PIRLS 2016 *School Emphasis on Academic Success – Teachers’ Reports* Scale¹



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. The scale statistics that are reported herein reflect analysis of the items following collapsing.

Item Parameters for the PIRLS 2016 School Emphasis on Academic Success - Teachers' Reports Scale

Item	delta	tau_1	tau_2	tau_3	Infit
ATBG07A	-1.32583	-2.86202	-0.08581	2.94783	1.08
ATBG07B	-0.93336	-3.25924	0.00909	3.25015	0.97
ATBG07C	-0.90529	-3.15010	-0.01642	3.16652	1.05
ATBG07D	-0.95737	-3.07196	-0.05710	3.12906	1.00
ATBG07E	-0.12321	-1.65307	-0.24929	1.90236	1.33
ATBG07F	0.99236	-2.17211	0.07001	2.10210	1.04
ATBG07G	1.25870	-2.51430	0.14423	2.37007	0.85
ATBG07H	0.10750	-2.38394	-0.24263	2.62657	1.05
ATBG07I	1.12745	-2.70509	0.13541	2.56968	0.86
ATBG07J	0.20474	-2.87243	-0.04754	2.91997	0.91
ATBG07K	0.68915	-3.39428	0.15216	3.24212	0.85
ATBG07L	-0.13484	-2.38835	-0.40389	2.79224	1.12

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2016

Scale Transformation Constants for the PIRLS 2016 School Emphasis on Academic Success - Teachers' Reports Scale

Scale Transformation Constants	
A = 9.085861	Transformed Scale Score = 9.085861 + 1.287929 • Logit Scale Score
B = 1.287929	

**Equivalence Table of the Raw Score and Transformed Scale Scores for the PIRLS
2016 School Emphasis on Academic Success - Teachers' Reports Scale**

Raw Score	Transformed Scale Score	Cutpoint
1	2.31036	
2	3.17847	
3	3.83356	
4	4.38451	
5	4.87013	
6	5.30628	
7	5.70360	
8	6.06975	
9	6.41275	
10	6.73719	
11	7.04747	
12	7.34668	
13	7.64101	
14	7.93095	
15	8.22006	
16	8.51056	
17	8.80401	
18	9.10134	9.2
19	9.40263	
20	9.70726	
21	10.01421	
22	10.32239	
23	10.63104	
24	10.93982	
25	11.24966	
26	11.56193	
27	11.87884	
28	12.20341	
29	12.53973	
30	12.89347	12.8
31	13.27297	
32	13.69227	
33	14.16929	
34	14.75380	
35	15.55747	
36	17.11436	

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2016

Cronbach's Alpha Reliability Coefficient and Principal Components Analysis of the Items in the PIRLS 2016 School Emphasis on Academic Success - Teachers' Reports Scale

Country	Cronbach's Alpha Reliability Coefficient	Percent of Variance Explained	Component Loadings for Each Item											
			ATB607A	ATB607B	ATB607C	ATB607D	ATB607E	ATB607F	ATB607G	ATB607H	ATB607I	ATB607J	ATB607K	ATB607L
Australia	0.90	48	0.56	0.63	0.70	0.56	0.44	0.69	0.84	0.79	0.80	0.77	0.76	0.67
Austria	0.82	36	0.40	0.59	0.55	0.48	0.45	0.72	0.81	0.56	0.76	0.63	0.72	0.34
Azerbaijan	0.86	39	0.58	0.66	0.63	0.60	0.66	0.71	0.70	0.63	0.66	0.48	0.66	0.50
Bahrain	0.91	52	0.56	0.68	0.73	0.71	0.61	0.76	0.80	0.72	0.82	0.73	0.79	0.71
Belgium (Flemish)	0.79	31	0.36	0.47	0.59	0.48	0.55	0.50	0.74	0.51	0.74	0.56	0.65	0.42
Belgium (French)	0.82	36	0.45	0.50	0.48	0.49	0.39	0.63	0.75	0.60	0.75	0.70	0.74	0.56
Bulgaria	0.91	49	0.52	0.65	0.73	0.65	0.63	0.74	0.78	0.70	0.78	0.76	0.78	0.60
Canada	0.88	45	0.54	0.60	0.65	0.63	0.48	0.68	0.80	0.72	0.80	0.73	0.77	0.53
Chile	0.77	32	-0.20	-0.21	-0.24	-0.18	-0.18	0.66	0.84	0.74	0.78	0.70	0.69	0.59
Chinese Taipei	0.83	35	0.51	0.42	0.48	0.52	0.48	0.67	0.77	0.65	0.72	0.69	0.63	0.45
Czech Republic	0.86	41	0.58	0.70	0.65	0.61	0.57	0.63	0.66	0.57	0.67	0.68	0.74	0.56
Denmark	0.87	41	0.60	0.55	0.66	0.52	0.51	0.67	0.77	0.56	0.77	0.72	0.70	0.60
Egypt	0.90	48	0.62	0.67	0.63	0.57	0.62	0.74	0.82	0.74	0.79	0.74	0.78	0.57
England	0.89	47	0.62	0.63	0.62	0.59	0.55	0.68	0.82	0.75	0.77	0.73	0.78	0.63
Finland	0.82	35	0.39	0.42	0.63	0.56	0.40	0.64	0.67	0.70	0.73	0.69	0.64	0.50
France	0.83	38	0.34	0.59	0.47	0.42	0.37	0.68	0.83	0.64	0.80	0.73	0.76	0.46
Georgia	0.88	43	0.66	0.70	0.62	0.55	0.63	0.69	0.73	0.61	0.81	0.69	0.58	0.57
Germany	0.83	36	0.41	0.53	0.57	0.54	0.43	0.61	0.79	0.62	0.79	0.61	0.73	0.47
Hong Kong SAR	0.87	42	0.52	0.56	0.51	0.63	0.54	0.70	0.71	0.68	0.74	0.78	0.77	0.57
Hungary	0.91	50	0.57	0.69	0.67	0.64	0.42	0.75	0.83	0.76	0.80	0.76	0.77	0.72
Iran, Islamic Rep. of	0.91	49	0.72	0.73	0.60	0.73	0.71	0.78	0.78	0.63	0.76	0.70	0.71	0.54
Ireland	0.90	48	0.47	0.64	0.74	0.60	0.49	0.69	0.84	0.78	0.85	0.80	0.74	0.55
Israel	0.89	47	0.70	0.74	0.65	0.61	0.64	0.55	0.67	0.68	0.74	0.78	0.76	0.67
Italy	0.88	44	0.69	0.66	0.71	0.72	0.69	0.64	0.78	0.45	0.73	0.64	0.69	0.49
Kazakhstan	0.90	47	0.59	0.70	0.67	0.69	0.66	0.60	0.70	0.68	0.74	0.69	0.79	0.72
Kuwait	0.91	51	0.64	0.66	0.68	0.74	0.66	0.69	0.83	0.63	0.77	0.77	0.81	0.69
Latvia	0.86	40	0.67	0.71	0.55	0.67	0.72	0.64	0.66	0.45	0.70	0.58	0.65	0.46
Lithuania	0.83	36	0.48	0.69	0.68	0.62	0.49	0.55	0.69	0.73	0.64	0.55	0.61	0.40
Macao SAR	0.90	49	0.62	0.73	0.67	0.76	0.74	0.70	0.71	0.70	0.70	0.71	0.75	0.63
Malta	0.85	40	0.61	0.64	0.64	0.59	0.44	0.42	0.66	0.73	0.73	0.73	0.71	0.58
Morocco	0.91	50	0.58	0.66	0.67	0.70	0.70	0.72	0.79	0.70	0.74	0.74	0.81	0.65
Netherlands	0.78	30	0.32	0.38	0.54	0.51	0.39	0.52	0.69	0.62	0.75	0.61	0.63	0.47
New Zealand	0.89	47	0.61	0.64	0.65	0.56	0.56	0.73	0.77	0.70	0.79	0.73	0.75	0.68
Northern Ireland	0.88	44	0.71	0.74	0.68	0.57	0.61	0.64	0.67	0.54	0.67	0.78	0.76	0.54
Norway (5)	0.87	42	0.49	0.67	0.60	0.60	0.56	0.68	0.78	0.63	0.75	0.73	0.70	0.55
Oman	0.91	49	0.61	0.64	0.73	0.62	0.62	0.75	0.79	0.75	0.75	0.72	0.73	0.69
Poland	0.89	47	0.47	0.62	0.65	0.59	0.65	0.73	0.80	0.64	0.81	0.73	0.75	0.67
Portugal	0.90	48	0.64	0.71	0.72	0.64	0.57	0.75	0.80	0.76	0.80	0.70	0.71	0.48
Qatar	0.89	47	0.66	0.70	0.71	0.74	0.60	0.68	0.73	0.58	0.69	0.70	0.77	0.62
Russian Federation	0.86	41	0.66	0.69	0.60	0.65	0.49	0.70	0.73	0.48	0.71	0.68	0.69	0.51
Saudi Arabia	0.91	51	0.69	0.69	0.51	0.76	0.61	0.73	0.79	0.74	0.81	0.72	0.77	0.69
Singapore	0.90	48	0.62	0.64	0.63	0.67	0.60	0.70	0.82	0.66	0.77	0.76	0.78	0.62
Slovak Republic	0.88	44	0.56	0.64	0.65	0.59	0.54	0.69	0.74	0.59	0.75	0.75	0.78	0.62
Slovenia	0.78	30	0.57	0.62	0.54	0.64	0.66	0.55	0.60	0.36	0.52	0.38	0.57	0.46
South Africa	0.92	50	0.53	0.63	0.60	0.59	0.54	0.76	0.80	0.74	0.84	0.81	0.83	0.74
Spain	0.87	42	0.54	0.66	0.64	0.53	0.50	0.71	0.82	0.76	0.76	0.63	0.67	0.51
Sweden	0.85	40	0.46	0.51	0.63	0.62	0.50	0.71	0.77	0.72	0.75	0.74	0.62	0.44
Trinidad and Tobago	0.91	52	0.53	0.63	0.64	0.69	0.67	0.79	0.85	0.72	0.84	0.80	0.76	0.64
United Arab Emirates	0.91	52	0.67	0.70	0.69	0.71	0.66	0.72	0.80	0.67	0.81	0.77	0.81	0.64
United States	0.89	47	0.41	0.58	0.55	0.59	0.45	0.78	0.86	0.82	0.84	0.72	0.73	0.69
Benchmarking Participants														
Buenos Aires, Argentina	0.89	46	0.46	0.65	0.60	0.59	0.58	0.74	0.82	0.74	0.79	0.73	0.80	0.52
Ontario, Canada	0.90	50	0.57	0.67	0.67	0.69	0.46	0.73	0.82	0.78	0.84	0.75	0.84	0.59
Quebec, Canada	0.82	35	0.48	0.49	0.66	0.47	0.39	0.59	0.77	0.69	0.77	0.65	0.68	0.28
Denmark (3)	0.88	44	0.55	0.62	0.65	0.52	0.50	0.64	0.75	0.74	0.78	0.79	0.75	0.59
Norway (4)	0.88	44	0.63	0.73	0.60	0.68	0.56	0.60	0.70	0.69	0.77	0.66	0.70	0.61
Moscow City, Russian Fed.	0.81	34	0.57	0.55	0.67	0.49	0.59	0.64	0.61	0.45	0.64	0.61	0.71	0.36
Eng/Afr/Zulu - RSA (5)	0.92	52	0.60	0.64	0.56	0.69	0.64	0.85	0.85	0.51	0.86	0.84	0.76	0.75
Andalusia, Spain	0.90	48	0.55	0.77	0.71	0.54	0.54	0.71	0.86	0.79	0.83	0.69	0.71	0.51
Madrid, Spain	0.87	45	0.55	0.61	0.76	0.51	0.29	0.78	0.82	0.77	0.82	0.70	0.73	0.53
Abu Dhabi, UAE	0.91	53	0.73	0.74	0.72	0.71	0.64	0.66	0.79	0.68	0.85	0.80	0.80	0.57
Dubai, UAE	0.94	59	0.73	0.75	0.77	0.75	0.68	0.81	0.81	0.67	0.83	0.81	0.84	0.71

SOURCE: IEA's Progress in International Reading Literacy Study - PIRLS 2016

Relationship Between the PIRLS 2016 School Emphasis on Academic Success - Teachers' Reports Scale and PIRLS 2016 Reading 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)	
Australia	0.25	0.06	0.05
Austria	0.22	0.05	0.04
Azerbaijan	0.12	0.01	0.01
Bahrain	0.25	0.06	0.05
Belgium (Flemish)	0.16	0.03	0.01
Belgium (French)	0.24	0.06	0.05
Bulgaria	0.34	0.11	0.08
Canada	0.12	0.01	0.01
Chile	-0.01	0.00	0.00
Chinese Taipei	0.05	0.00	0.00
Czech Republic	0.11	0.01	0.01
Denmark	0.11	0.01	0.01
Egypt	0.25	0.06	0.04
England	0.09	0.01	0.01
Finland	0.09	0.01	0.01
France	0.14	0.02	0.02
Georgia	0.13	0.02	0.01
Germany	0.31	0.10	0.08
Hong Kong SAR	0.03	0.00	0.00
Hungary	0.31	0.09	0.06
Iran, Islamic Rep. of	0.11	0.01	0.01
Ireland	0.19	0.03	0.03
Israel	0.12	0.01	0.01
Italy	0.04	0.00	0.00
Kazakhstan	-0.02	0.00	0.00
Kuwait	0.10	0.01	0.01
Latvia	0.13	0.02	0.01
Lithuania	0.19	0.04	0.03
Macao SAR	0.10	0.01	0.02
Malta	0.13	0.02	0.02
Morocco	0.29	0.09	0.09
Netherlands	0.12	0.01	0.01
New Zealand	0.17	0.03	0.03
Northern Ireland	0.11	0.01	0.01
Norway (5)	0.15	0.02	0.02
Oman	0.14	0.02	0.02
Poland	0.06	0.00	0.00
Portugal	0.17	0.03	0.02
Qatar	0.08	0.01	0.01
Russian Federation	0.16	0.03	0.04
Saudi Arabia	0.21	0.04	0.04
Singapore	0.21	0.05	0.04
Slovak Republic	0.27	0.07	0.04
Slovenia	0.04	0.00	0.00
South Africa	0.03	0.00	0.00
Spain	0.13	0.02	0.02
Sweden	0.14	0.02	0.01
Trinidad and Tobago	0.19	0.03	0.04
United Arab Emirates	0.23	0.05	0.05
United States	0.23	0.05	0.06
International Median	0.14	0.02	0.02
Benchmarking Participants			
Buenos Aires, Argentina	0.20	0.04	0.04
Ontario, Canada	0.14	0.02	0.02
Quebec, Canada	0.13	0.02	0.01
Denmark (3)	0.13	0.02	0.01
Norway (4)	0.10	0.01	0.01
Moscow City, Russian Fed.	0.12	0.01	0.02
Eng/Afr/Zulu - RSA (5)	0.05	0.00	0.01
Andalusia, Spain	0.19	0.04	0.03
Madrid, Spain	0.19	0.04	0.03
Abu Dhabi, UAE	0.16	0.02	0.03
Dubai, UAE	0.26	0.07	0.05

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2016