

## Students Confident in Reading Scale

The *Students Confident in Reading* (SCR) scale was created based on students' degree of agreement with the six statements described below.

### Items in the PIRLS 2016 *Students Confident in Reading* Scale

		How well do you read? Tell how much you agree with each of these statements.			
		Agree a lot	Agree a little	Disagree a little	Disagree a lot
ASBR07A	1) I usually do well in reading -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
ASBR07B	2) Reading is easy for me -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
ASBR07C*	3) I have trouble reading stories with difficult words* -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
ASBR07D*	4) Reading is harder for me than for many of my classmates* -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
ASBR07E*	5) Reading is harder for me than any other subject* -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
ASBR07F*	6) I am just not good at reading* -----	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

\* Reverse coded

Very Confident      Somewhat Confident      Not Confident

10.3      8.2

**Item Parameters for the PIRLS 2016 Students Confident in Reading Scale**

Item	delta	tau_1	tau_2	tau_3	Infit
ASBR07A	-0.52312	-0.32359	-0.68416	1.00775	1.11
ASBR07B	-0.60120	-0.48024	-0.42689	0.90713	1.03
* ASBR07C	1.01425	-0.93819	0.50887	0.42932	1.22
* ASBR07D	0.25813	-0.38905	0.22763	0.16142	0.94
* ASBR07E	-0.00713	-0.11719	0.22036	-0.10317	0.92
* ASBR07F	-0.14093	-0.05955	0.23700	-0.17745	0.90

\* Reverse coded

**Scale Transformation Constants for the PIRLS 2016 Students Confident in Reading Scale**

Scale Transformation Constants	
A = 8.137507	Transformed Scale Score = 8.137507 + 1.753646 • Logit Scale Score
B = 1.753646	

**Equivalence Table of the Raw Score and Transformed Scale Scores for the PIRLS 2016 Students Confident in Reading Scale**

Raw Score	Transformed Scale Score	Cutpoint
0	2.95794	
1	4.60752	
2	5.40368	
3	5.97279	
4	6.43307	
5	6.82953	
6	7.18533	
7	7.50982	
8	7.81385	
9	8.10473	8.2
10	8.40103	
11	8.70504	
12	9.03187	
13	9.39594	
14	9.81182	
15	10.31185	10.3
16	10.93952	
17	11.79542	
18	13.47027	

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

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**Cronbach's Alpha Reliability Coefficient and Principal Components Analysis of the Items in the PIRLS 2016 Students Confident in Reading Scale**

Country	Cronbach's Alpha Reliability Coefficient	Percent of Variance Explained	Component Loadings for Each Item					
			ASBR07A	ASBR07B	ASBR07C*	ASBR07D*	ASBR07E*	ASBR07F*
Australia	0.81	52	0.67	0.73	0.62	0.79	0.75	0.77
Austria	0.81	53	0.71	0.74	0.59	0.76	0.76	0.79
Azerbaijan	0.68	40	0.11	0.25	0.51	0.84	0.84	0.81
Bahrain	0.69	40	0.19	0.40	0.62	0.76	0.81	0.75
Belgium (Flemish)	0.83	56	0.75	0.80	0.57	0.76	0.75	0.83
Belgium (French)	0.75	45	0.59	0.60	0.55	0.74	0.75	0.77
Bulgaria	0.80	53	0.71	0.73	0.49	0.78	0.80	0.80
Canada	0.81	53	0.69	0.75	0.57	0.78	0.78	0.78
Chile	0.69	39	0.38	0.48	0.57	0.71	0.75	0.78
Chinese Taipei	0.78	49	0.60	0.66	0.45	0.81	0.81	0.80
Czech Republic	0.79	50	0.65	0.73	0.50	0.78	0.75	0.80
Denmark	0.83	56	0.77	0.80	0.58	0.75	0.78	0.79
Egypt	0.72	42	0.32	0.60	0.53	0.77	0.80	0.76
England	0.82	54	0.68	0.74	0.61	0.80	0.78	0.79
Finland	0.80	53	0.72	0.75	0.57	0.79	0.76	0.78
France	0.78	48	0.68	0.62	0.57	0.77	0.72	0.79
Georgia	0.75	45	0.45	0.52	0.49	0.81	0.82	0.82
Germany	0.82	54	0.71	0.74	0.58	0.78	0.78	0.80
Hong Kong SAR	0.80	50	0.62	0.67	0.57	0.79	0.80	0.76
Hungary	0.82	55	0.76	0.75	0.52	0.80	0.77	0.82
Iran, Islamic Rep. of	0.70	41	0.40	0.46	0.59	0.74	0.79	0.75
Ireland	0.82	54	0.72	0.78	0.61	0.79	0.75	0.76
Israel	0.75	46	0.42	0.63	0.49	0.80	0.80	0.82
Italy	0.75	45	0.63	0.63	0.61	0.75	0.67	0.73
Kazakhstan	0.77	48	0.37	0.44	0.67	0.85	0.85	0.79
Kuwait	0.65	37	0.44	0.57	0.42	0.69	0.73	0.73
Latvia	0.80	52	0.73	0.76	0.51	0.79	0.76	0.74
Lithuania	0.80	52	0.69	0.74	0.54	0.80	0.78	0.75
Macao SAR	0.75	45	0.61	0.63	0.46	0.76	0.77	0.75
Malta	0.71	42	0.55	0.53	0.49	0.79	0.73	0.74
Morocco	0.56	34	-0.08	0.32	0.58	0.74	0.76	0.71
Netherlands	0.85	59	0.73	0.82	0.58	0.79	0.80	0.84
New Zealand	0.76	46	0.55	0.63	0.55	0.79	0.78	0.74
Northern Ireland	0.83	55	0.70	0.74	0.65	0.78	0.77	0.79
Norway (5)	0.82	54	0.71	0.77	0.64	0.76	0.80	0.74
Oman	0.67	38	0.33	0.40	0.55	0.75	0.78	0.72
Poland	0.83	56	0.68	0.73	0.65	0.80	0.80	0.79
Portugal	0.72	44	0.71	0.65	0.56	0.66	0.57	0.79
Qatar	0.72	42	0.19	0.36	0.65	0.80	0.83	0.80
Russian Federation	0.79	51	0.71	0.72	0.54	0.80	0.74	0.73
Saudi Arabia	0.53	41	-0.41	0.26	0.64	0.73	0.83	0.75
Singapore	0.79	49	0.65	0.70	0.57	0.77	0.75	0.76
Slovak Republic	0.81	53	0.68	0.74	0.54	0.79	0.76	0.82
Slovenia	0.83	55	0.73	0.77	0.66	0.78	0.77	0.74
South Africa	0.58	35	-0.13	-0.07	0.61	0.74	0.77	0.74
Spain	0.68	40	0.61	0.60	0.41	0.70	0.67	0.73
Sweden	0.82	55	0.69	0.75	0.65	0.77	0.77	0.79
Trinidad and Tobago	0.76	47	0.63	0.66	0.49	0.75	0.77	0.77
United Arab Emirates	0.72	42	0.39	0.47	0.61	0.76	0.79	0.75
United States	0.79	49	0.62	0.67	0.57	0.80	0.76	0.76
<b>Benchmarking Participants</b>								
Buenos Aires, Argentina	0.65	37	0.47	0.43	0.46	0.77	0.65	0.78
Ontario, Canada	0.82	54	0.70	0.76	0.57	0.79	0.79	0.79
Quebec, Canada	0.82	54	0.70	0.75	0.58	0.77	0.78	0.80
Denmark (3)	0.80	51	0.71	0.75	0.60	0.74	0.73	0.77
Norway (4)	0.79	50	0.65	0.73	0.61	0.74	0.77	0.74
Moscow City, Russian Fed.	0.80	52	0.74	0.77	0.53	0.80	0.76	0.70
Eng/Afr/Zulu - RSA (5)	0.68	39	0.23	0.30	0.56	0.80	0.80	0.77
Andalusia, Spain	0.66	38	0.59	0.51	0.42	0.71	0.68	0.73
Madrid, Spain	0.67	39	0.63	0.57	0.42	0.71	0.65	0.72
Abu Dhabi, UAE	0.71	41	0.38	0.46	0.61	0.75	0.78	0.75
Dubai, UAE	0.75	45	0.51	0.55	0.58	0.77	0.78	0.76

\*Reverse coded

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

**Relationship Between the PIRLS 2016 Students Confident in Reading 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 ( $\eta^2$ )
	(r)	(r <sup>2</sup> )	
Australia	0.52	0.27	0.28
Austria	0.41	0.17	0.16
Azerbaijan	0.31	0.10	0.11
Bahrain	0.45	0.20	0.22
Belgium (Flemish)	0.33	0.11	0.10
Belgium (French)	0.43	0.18	0.19
Bulgaria	0.42	0.17	0.18
Canada	0.45	0.20	0.21
Chile	0.39	0.15	0.17
Chinese Taipei	0.40	0.16	0.17
Czech Republic	0.40	0.16	0.17
Denmark	0.50	0.25	0.23
Egypt	0.39	0.15	0.16
England	0.49	0.24	0.23
Finland	0.42	0.18	0.17
France	0.41	0.17	0.19
Georgia	0.38	0.15	0.16
Germany	0.40	0.16	0.17
Hong Kong SAR	0.39	0.15	0.14
Hungary	0.49	0.24	0.22
Iran, Islamic Rep. of	0.43	0.18	0.19
Ireland	0.44	0.19	0.19
Israel	0.46	0.21	0.24
Italy	0.30	0.09	0.11
Kazakhstan	0.23	0.05	0.07
Kuwait	0.36	0.13	0.14
Latvia	0.41	0.17	0.17
Lithuania	0.47	0.22	0.20
Macao SAR	0.37	0.14	0.13
Malta	0.46	0.21	0.21
Morocco	0.42	0.17	0.19
Netherlands	0.37	0.14	0.13
New Zealand	0.50	0.25	0.26
Northern Ireland	0.46	0.21	0.23
Norway (5)	0.46	0.21	0.19
Oman	0.43	0.18	0.19
Poland	0.40	0.16	0.20
Portugal	0.39	0.16	0.17
Qatar	0.43	0.18	0.21
Russian Federation	0.41	0.17	0.19
Saudi Arabia	0.33	0.11	0.12
Singapore	0.49	0.24	0.24
Slovak Republic	0.42	0.18	0.19
Slovenia	0.43	0.19	0.20
South Africa	0.39	0.15	0.15
Spain	0.39	0.15	0.16
Sweden	0.41	0.17	0.17
Trinidad and Tobago	0.53	0.29	0.30
United Arab Emirates	0.48	0.23	0.25
United States	0.44	0.20	0.19
<b>International Median</b>	<b>0.42</b>	<b>0.17</b>	<b>0.19</b>
<b>Benchmarking Participants</b>			
Buenos Aires, Argentina	0.43	0.19	0.19
Ontario, Canada	0.45	0.20	0.21
Quebec, Canada	0.43	0.19	0.19
Denmark (3)	0.47	0.22	0.21
Norway (4)	0.45	0.20	0.20
Moscow City, Russian Fed.	0.40	0.16	0.16
Eng/Afr/Zulu - RSA (5)	0.43	0.19	0.18
Andalusia, Spain	0.42	0.18	0.20
Madrid, Spain	0.37	0.14	0.14
Abu Dhabi, UAE	0.50	0.25	0.27
Dubai, UAE	0.44	0.20	0.22

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