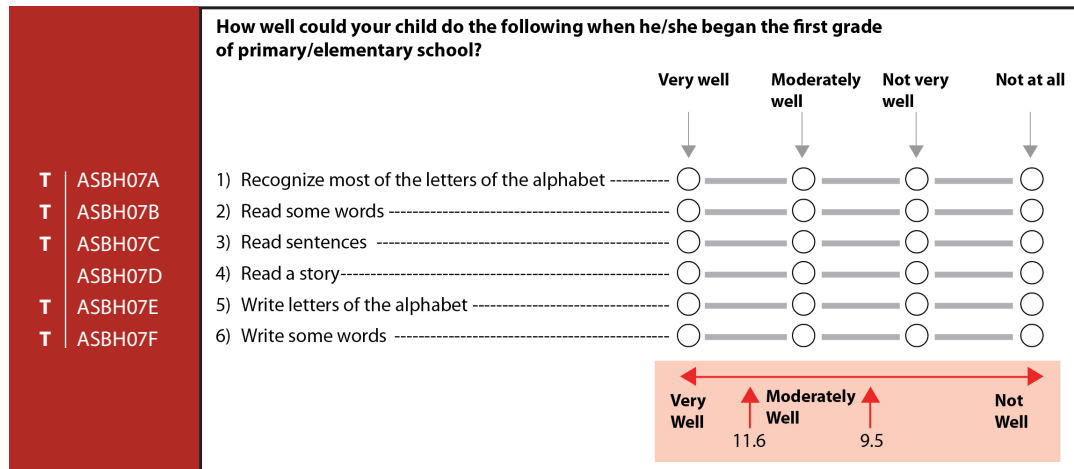


Could Do Early Literacy Tasks When Beginning Primary School Scale

The *Could Do Early Literacy Tasks When Beginning Primary School* (ELT) scale was created based on parents' responses to how well their children could do the tasks described below when they began primary school.

Items in the PIRLS 2016 *Could Do Early Literacy Tasks When Beginning Primary School* Scale



T Trend item—item was included in the same scale in PIRLS 2011 and was used for linking the PIRLS 2011 and PIRLS 2016 scales.

Item Parameters for the PIRLS 2016 *Could Do Early Literacy Tasks When Beginning Primary School* Scale

Item	delta	tau_1	tau_2	tau_3	Infit
ASBH07A	-1.92907	-2.74251	-0.22290	2.96541	1.23
ASBH07B	-0.25362	-2.61266	-0.23840	2.85106	0.86
ASBH07C	1.33018	-2.27105	-0.26638	2.53743	0.87
ASBH07D	2.23418	-2.17667	-0.33003	2.50670	1.13
ASBH07E	-1.28432	-3.05497	-0.09985	3.15482	1.17
ASBH07F	-0.09735	-2.74264	-0.24088	2.98352	1.04

Scale Transformation Constants for the PIRLS 2016 *Could Do Early Literacy Tasks When Beginning Primary School* Scale

Scale Transformation Constants	
A = 9.406273	Transformed Scale Score = 9.406273 + 0.729914 • Logit Scale Score
B = 0.729914	

Equivalence Table of the Raw Score and Transformed Scale Scores for the PIRLS 2016 *Could Do Early Literacy Tasks When Beginning Primary School* Scale

Raw Score	Transformed Scale Score	Cutpoint
0	4.87072	
1	5.91978	
2	6.57986	
3	7.11898	
4	7.58223	
5	8.00017	
6	8.38767	
7	8.75301	
8	9.10285	
9	9.44462	9.5
10	9.78407	
11	10.12525	
12	10.47276	
13	10.83403	
14	11.21961	
15	11.64946	11.6
16	12.15650	
17	12.80602	
18	13.88211	

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

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 Could Do Early Literacy Tasks When Beginning Primary School Scale

Country	Cronbach’s Alpha Reliability Coefficient	Percent of Variance Explained	Component Loadings for Each Item					
			ASBH07A	ASBH07B	ASBH07C	ASBH07D	ASBH07E	ASBH07F
Australia	0.92	71	0.75	0.89	0.89	0.84	0.82	0.88
Austria	0.90	67	0.81	0.87	0.85	0.77	0.79	0.82
Azerbaijan	0.92	70	0.79	0.89	0.87	0.77	0.84	0.86
Bahrain	0.90	69	0.76	0.89	0.88	0.79	0.78	0.86
Belgium (Flemish)	0.92	71	0.78	0.89	0.88	0.83	0.82	0.85
Belgium (French)	0.89	65	0.72	0.85	0.85	0.78	0.79	0.82
Bulgaria	0.94	75	0.82	0.92	0.89	0.84	0.85	0.89
Canada	0.91	70	0.74	0.88	0.89	0.84	0.79	0.86
Chile	0.93	73	0.79	0.88	0.90	0.85	0.85	0.86
Chinese Taipei	0.91	70	0.81	0.88	0.88	0.82	0.83	0.80
Czech Republic	0.93	73	0.79	0.90	0.90	0.85	0.82	0.87
Denmark	0.91	70	0.77	0.89	0.88	0.81	0.81	0.86
Egypt	0.93	73	0.84	0.91	0.87	0.78	0.83	0.89
England	-	-	-	-	-	-	-	-
Finland	0.92	73	0.75	0.91	0.91	0.85	0.80	0.89
France	0.87	61	0.70	0.85	0.83	0.75	0.75	0.81
Georgia	0.92	71	0.79	0.89	0.89	0.78	0.84	0.87
Germany	0.89	64	0.77	0.85	0.84	0.76	0.77	0.80
Hong Kong SAR	0.90	72	0.80	0.88	0.86	-	0.85	0.83
Hungary	0.93	73	0.82	0.90	0.90	0.80	0.86	0.84
Iran, Islamic Rep. of	0.93	75	0.82	0.89	0.90	0.83	0.87	0.89
Ireland	0.93	75	0.78	0.89	0.91	0.87	0.85	0.88
Israel	0.90	69	0.72	0.88	0.88	0.82	0.80	0.86
Italy	0.91	68	0.79	0.88	0.85	0.78	0.81	0.84
Kazakhstan	0.90	66	0.73	0.85	0.87	0.80	0.79	0.83
Kuwait	0.92	72	0.80	0.89	0.88	0.82	0.83	0.87
Latvia	0.91	69	0.76	0.87	0.90	0.83	0.78	0.84
Lithuania	0.91	69	0.77	0.88	0.89	0.84	0.77	0.83
Macao SAR	0.88	62	0.77	0.85	0.86	0.70	0.80	0.75
Malta	0.91	69	0.74	0.88	0.89	0.83	0.80	0.86
Morocco	0.94	76	0.86	0.92	0.90	0.77	0.87	0.90
Netherlands	0.92	72	0.77	0.89	0.89	0.83	0.83	0.86
New Zealand	0.90	71	0.77	0.89	0.90	0.85	0.80	-
Northern Ireland	-	-	-	-	-	-	-	-
Norway (5)	0.91	70	0.79	0.89	0.88	0.79	0.82	0.86
Oman	0.90	67	0.76	0.88	0.87	0.78	0.77	0.85
Poland	0.92	72	0.79	0.89	0.89	0.83	0.83	0.87
Portugal	0.90	67	0.73	0.88	0.87	0.80	0.79	0.83
Qatar	0.90	68	0.74	0.88	0.87	0.79	0.80	0.86
Russian Federation	0.91	70	0.77	0.90	0.90	0.84	0.78	0.83
Saudi Arabia	0.91	70	0.76	0.89	0.89	0.80	0.80	0.88
Singapore	0.92	72	0.77	0.89	0.89	0.85	0.81	0.86
Slovak Republic	0.91	69	0.78	0.89	0.87	0.77	0.81	0.83
Slovenia	0.93	73	0.81	0.90	0.89	0.82	0.84	0.87
South Africa	0.88	62	0.69	0.82	0.84	0.81	0.75	0.79
Spain	0.93	73	0.81	0.89	0.90	0.85	0.84	0.86
Sweden	0.92	72	0.80	0.89	0.89	0.81	0.83	0.88
Trinidad and Tobago	0.88	63	0.68	0.84	0.86	0.82	0.75	0.80
United Arab Emirates	0.91	69	0.77	0.88	0.88	0.81	0.79	0.86
United States	-	-	-	-	-	-	-	-
Benchmarking Participants								
Buenos Aires, Argentina	0.89	66	0.75	0.86	0.86	0.80	0.78	0.81
Ontario, Canada	0.92	72	0.76	0.89	0.90	0.85	0.81	0.86
Quebec, Canada	0.90	66	0.71	0.87	0.86	0.80	0.78	0.85
Denmark (3)	0.91	68	0.77	0.89	0.88	0.80	0.77	0.86
Norway (4)	0.91	70	0.79	0.89	0.88	0.77	0.82	0.86
Moscow City, Russian Fed.	0.91	69	0.75	0.88	0.90	0.84	0.78	0.83
Eng/Afr/Zulu - RSA (5)	0.88	63	0.68	0.83	0.85	0.82	0.75	0.81
Andalusia, Spain	0.93	75	0.83	0.90	0.91	0.85	0.85	0.87
Madrid, Spain	0.92	73	0.81	0.89	0.90	0.84	0.83	0.87
Abu Dhabi, UAE	0.91	70	0.78	0.88	0.88	0.81	0.79	0.86
Dubai, UAE	0.90	68	0.74	0.87	0.87	0.82	0.79	0.84

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

A dash (–) indicates comparable data not available.

Relationship Between the PIRLS 2016 *Could Do Early Literacy Tasks When Beginning Primary School* 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	0.22	0.05	0.04
Austria	-0.02	0.00	0.01
Azerbaijan	0.18	0.03	0.03
Bahrain	0.38	0.14	0.12
Belgium (Flemish)	-0.04	0.00	0.00
Belgium (French)	0.09	0.01	0.01
Bulgaria	0.44	0.19	0.13
Canada	0.30	0.09	0.08
Chile	0.31	0.10	0.08
Chinese Taipei	0.35	0.12	0.12
Czech Republic	0.16	0.03	0.03
Denmark	0.33	0.11	0.09
Egypt	0.42	0.18	0.17
England	-	-	-
Finland	0.40	0.16	0.13
France	0.19	0.04	0.03
Georgia	0.17	0.03	0.02
Germany	0.11	0.01	0.01
Hong Kong SAR	0.36	0.13	0.11
Hungary	0.10	0.01	0.01
Iran, Islamic Rep. of	0.19	0.04	0.02
Ireland	0.39	0.16	0.13
Israel	0.03	0.00	0.00
Italy	0.09	0.01	0.01
Kazakhstan	0.18	0.03	0.04
Kuwait	0.30	0.09	0.09
Latvia	0.37	0.13	0.12
Lithuania	0.45	0.20	0.18
Macao SAR	0.31	0.10	0.09
Malta	0.29	0.08	0.07
Morocco	0.35	0.12	0.13
Netherlands	0.17	0.03	0.03
New Zealand	0.13	0.02	0.02
Northern Ireland	-	-	-
Norway (5)	0.26	0.07	0.05
Oman	0.39	0.15	0.13
Poland	0.29	0.08	0.07
Portugal	0.14	0.02	0.02
Qatar	0.29	0.08	0.07
Russian Federation	0.35	0.12	0.11
Saudi Arabia	0.17	0.03	0.03
Singapore	0.46	0.21	0.19
Slovak Republic	0.15	0.02	0.01
Slovenia	0.26	0.07	0.07
South Africa	0.19	0.04	0.04
Spain	0.35	0.12	0.11
Sweden	0.38	0.15	0.12
Trinidad and Tobago	0.34	0.12	0.10
United Arab Emirates	0.37	0.13	0.13
United States	-	-	-
International Median	0.29	0.08	0.07
Benchmarking Participants			
Buenos Aires, Argentina	0.23	0.05	0.05
Ontario, Canada	0.34	0.12	0.10
Quebec, Canada	0.19	0.04	0.04
Denmark (3)	0.34	0.11	0.11
Norway (4)	0.31	0.10	0.07
Moscow City, Russian Fed.	0.39	0.15	0.14
Eng/Afr/Zulu - RSA (5)	0.21	0.05	0.05
Andalusia, Spain	0.33	0.11	0.09
Madrid, Spain	0.33	0.11	0.09
Abu Dhabi, UAE	0.41	0.17	0.16
Dubai, UAE	0.30	0.09	0.08

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

A dash (-) indicates comparable data not available.