

Students' Views on Engaging Teaching in Science Lessons Scale, Eighth Grade

Students' Views on Engaging Teaching in Science Lessons Scale (E L)

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Equivalence Table of Raw and Transformed Scale Scores for the TIMSS 2015 Students' Views on Engaging Teaching in Science Lessons Scale, Eighth Grade

Raw Score	Transformed Scale Score	Cutpoint
0	3.99370	
1	5.05193	
2	5.56338	
3	5.91581	
4	6.19102	
5	6.42207	
6	6.62528	
7	6.81001	
8	6.98219	
9	7.14596	
10	7.30443	
11	7.46008	
12	7.61501	
13	7.77116	
14	7.93069	
15	8.09420	8.1
16	8.26433	
17	8.44227	
18	8.62934	
19	8.82641	
20	9.03371	
21	9.25114	
22	9.47855	
23	9.71647	
24	9.96698	
25	10.23475	10.2
26	10.52856	
27	10.86204	
28	11.27059	
29	11.83812	
30	12.94849	

SOURCE: IEA's Trends in International Mathematics and Science Study – TIMSS 2015

Cronbach's Alpha Reliability Coefficient and Principal Components Analysis of the Items in the TIMSS 2015 Students' Views on Engaging Teaching in Science Lessons Scale, Eighth Grade

Country	Cronbach's Alpha Reliability Coefficient	Percent of Variance Explained	Component Loadings for Each Item									
			BSBS22A	BSBS22B	BSBS22C	BSBS22D	BSBS22E	BSBS22F	BSBS22G	BSBS22H	BSBS22I	BSBS22J
Australia	0.95	69	0.74	0.86	0.83	0.84	0.88	0.84	0.79	0.85	0.84	0.84
Bahrain	0.94	64	0.67	0.81	0.78	0.82	0.85	0.83	0.76	0.81	0.83	0.80
Botswana (9)	0.89	51	0.57	0.74	0.70	0.73	0.77	0.76	0.70	0.69	0.72	0.71
Canada	0.95	68	0.72	0.86	0.83	0.82	0.87	0.87	0.81	0.84	0.83	0.81
Chile	0.95	68	0.72	0.80	0.82	0.83	0.87	0.85	0.82	0.84	0.85	0.84
Chinese Taipei	0.93	61	0.74	0.80	0.81	0.80	0.80	0.78	0.78	0.80	0.79	0.74
Egypt	0.89	51	0.50	0.66	0.74	0.75	0.77	0.77	0.66	0.77	0.74	0.71
England	0.94	66	0.77	0.83	0.81	0.84	0.86	0.86	0.76	0.81	0.80	0.82
Georgia	-	-	-	-	-	-	-	-	-	-	-	-
Hong Kong SAR	0.96	72	0.79	0.86	0.85	0.86	0.88	0.87	0.84	0.85	0.85	0.83
Hungary	-	-	-	-	-	-	-	-	-	-	-	-
Iran, Islamic Rep. of	0.92	59	0.63	0.79	0.80	0.72	0.81	0.79	0.78	0.77	0.78	0.77
Ireland	0.95	67	0.73	0.87	0.83	0.82	0.86	0.87	0.78	0.80	0.80	0.80
Israel	0.95	70	0.76	0.86	0.82	0.83	0.87	0.88	0.83	0.83	0.84	0.83
Italy	0.92	58	0.57	0.77	0.71	0.76	0.84	0.81	0.77	0.77	0.78	0.78
Japan	0.93	61	0.64	0.83	0.80	0.79	0.82	0.83	0.67	0.81	0.82	0.78
Jordan	0.92	58	0.57	0.73	0.75	0.78	0.82	0.82	0.74	0.83	0.78	0.76
Kazakhstan	-	-	-	-	-	-	-	-	-	-	-	-
Korea, Rep. of	0.94	65	0.72	0.82	0.83	0.83	0.83	0.83	0.70	0.83	0.84	0.84
Kuwait	0.90	54	0.59	0.73	0.73	0.74	0.81	0.79	0.71	0.78	0.74	0.72
Lebanon	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-	-
Malaysia	0.93	62	0.70	0.80	0.83	0.80	0.82	0.83	0.76	0.79	0.81	0.76
Malta	-	-	-	-	-	-	-	-	-	-	-	-



Australia
Bahrain
Botswana (9)
Canada
Chile

