

TIMSS 2011

The TIMSS 2011 Students Engaged in Science Lessons Scale, Fourth Grade

Special Education (ESL) students. [Creating and Interpreting TIMSS and PIRLS 2011 Context Questionnaire Scales](#)

Exhibit 1: Items in the TIMSS 2011 Students Engaged in Science Lessons Scale, Fourth Grade

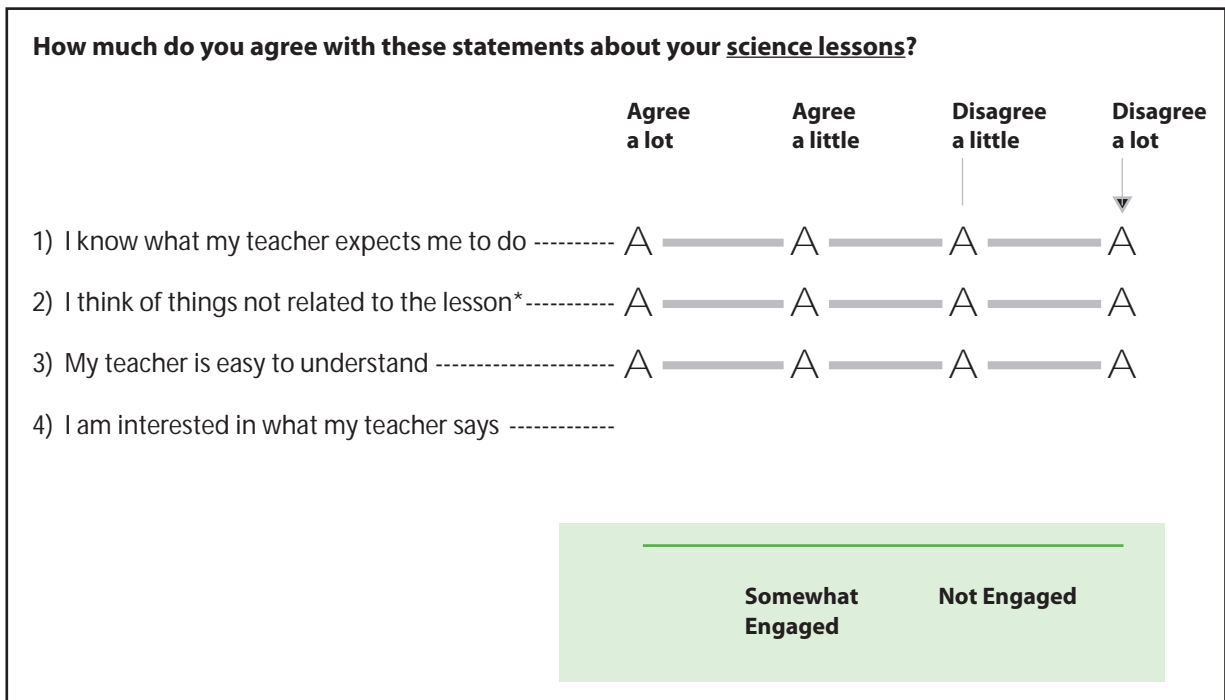


Exhibit 2: Item Parameters for the TIMSS 2011 Students Engaged in Science Lessons Scale, Fourth Grade

Item	delta	tau_1	tau_2	tau_3
ASBS05A	-1.21885	0.02395	-0.46687	0.44292
ASBS05B*	-0.54515	-0.34931	0.33456	0.01475
ASBS05C	-1.46142	-0.06779	-0.36569	0.43348
ASBS05D	-1.46652	0.01094	-0.31419	0.30325
ASBS05E	-1.23817	-0.03374	-0.21880	0.25254

*Reverse coded



Exhibit 6: Relationship Between the TIMSS 2011 Students Engaged in Science Lessons Scale, Fourth Grade, and TIMSS 2011 Science Achievement (Continued)

Country	Pearson's Correlation with Science Achievement		Variance in Science Achievement Accounted for by Difference Between Regions of the Scale (r^2)
	(r)	(r ²)	
Netherlands	0.10	0.01	0.01
New Zealand	0.09	0.01	0.01
Northern Ireland	0.15	0.02	0.03
Norway	0.08	0.01	0.01
Oman	0.29	0.09	0.10
Poland	0.11	0.01	0.02
Portugal	0.23	0.05	0.04
Qatar	0.29	0.08	0.10
Romania	0.28	0.08	0.08
Russian Federation	0.08	0.01	0.01

