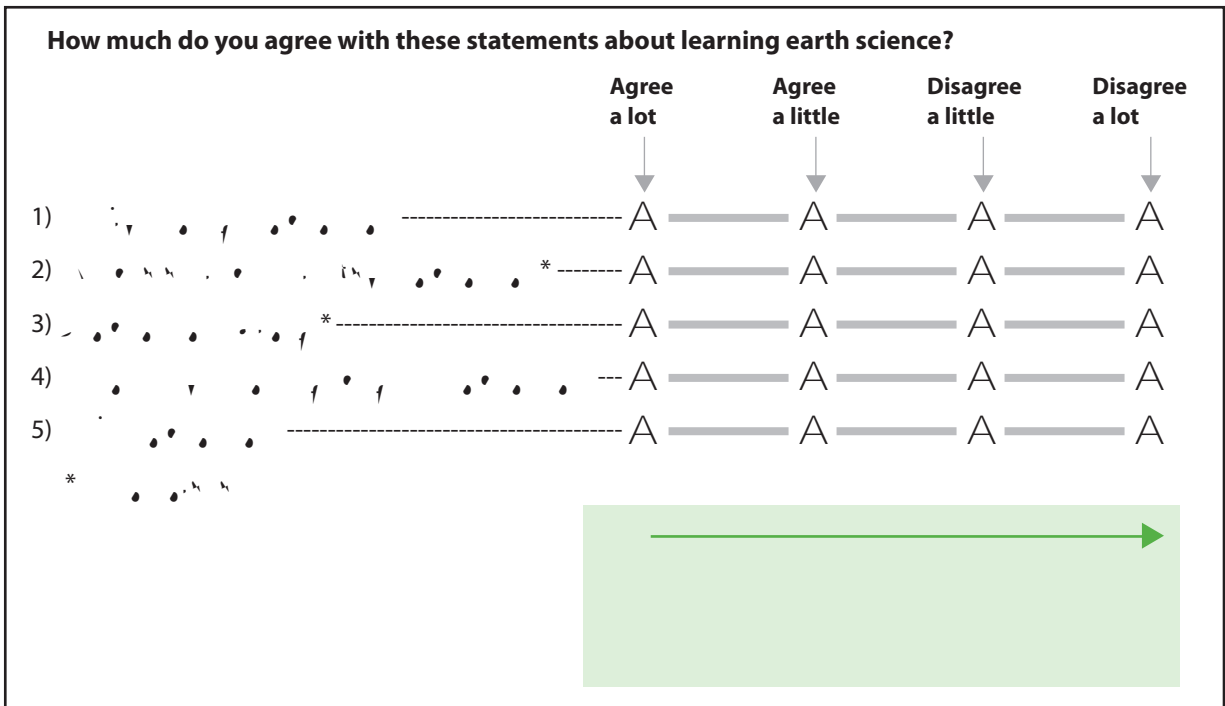


IMSS 2011

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The Students Like Learning Earth Science (SLE) scale was created based on students' degree of agreement to the five statements described below. This scale was administered in countries where the sciences are taught as separate subjects. See [Baker et al. \(2011\)](#) for more information on how the scales were formed.

Exhibit 1: Items in the TIMSS 2011 Students Like Learning Earth Science Scale, Eighth Grade



**Exhibit 2: Item Parameters for the TIMSS 2011 Students Like Learning Earth Science Scale, Eighth Grade**

Item	delta	tau_1	tau_2	tau_3
22_	1.41752	1.3 340	0.31 04	1.70244
22 *	0. 02 0	1.06	0.22402	1.2 401
22 *	1.00767	1.17070	0.23415	1.404 5
22	1.6 210	1.1 210	0.41371	1.5 5 1
22,	1.23026	1.277 3026		

