TIMSS 2011
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The Students Like Learning Biology (SLB) 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 **Creating and Interpreting TIMSS and PIRLS 2011 Context Questionnaire Scales** for more information on how the scales were formed.

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

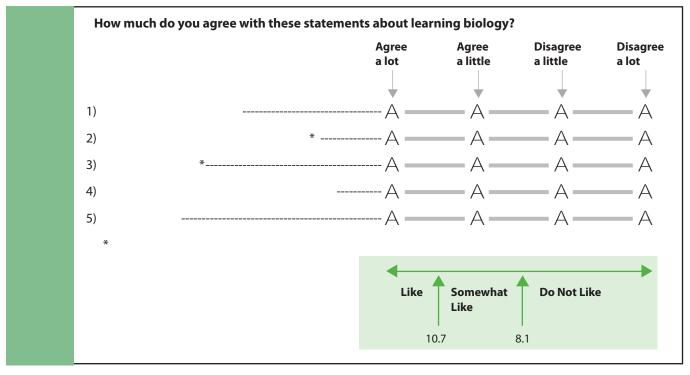
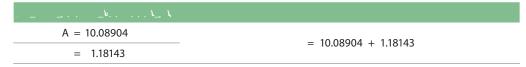


Exhibit 2: Item Parameters for the TIMSS 2011 Students Like Learning Biology Scale, Eighth Grade

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18A	1.63604	1.39320	0.42272	1.81592
18 *	1.06929	1.04000	0.22428	1.26428
18 *	1.06529	1.11005	0.25664	1.36669
18	2.06572	1.05057	0.51683	1.56740
18	1.39365	1.22478	0.35901	1.58379

**Exhibit 3: Scale Transformation Constants** 



## Exhibit 4: Equivalence Table of the Raw Score and the Transformed Scale Score

Raw Score	Transformed Scale Score	Cutpoint	Raw Score	Transformed Scale Score	Cutpoint
0	4.15352		8	8.45031	
1	5.46924		9	8.82147	
2	6.13197		10	9.22026	
3	6.61468		11	9.66026	
4	7.02673		12	10.15946	
5	7.39775		13	10.75363	10.7
6	7.75003		14	11.54285	
7	8.09757	8.1	15	13.01279	

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