

Item Parameter Estimates for the TIMSS 2015 Science and Literacy Learning Biology Scale, Eighth Grade

Item	Intercept	Difficulty 1	Difficulty 2	Difficulty 3	Item Variance
22	-0.2171	-1.373	-0.372	1.7720	0.7
22*	0.11	-0.770	-0.3707	1.3327	1.3
22	0.327	-1.1231	-0.3732	1.1	1.3
22	-0.7072	-1.072	-0.001	1.707	0.7
22	-0.0	-1.270	-0.213	1.7122	0.3
22	0.730	-1.20	-0.003	1.277	0.7
22	-0.717	-1.000	-0.7172	1.3072	1.1
22	-0.217	-1.07022	-0.37	1.707	1.27
22	0.713	-1.377	0.072	1.2007	0.7

22

Scale Transformation Constant for the TIMSS 2015 Science and Literacy Learning Biology Scale, Eighth Grade

2.7	Transformed Scale Score = 8.424458 + 1.150254 • Logit Scale Score
1.1027	

Exhibits Table of Raw and Transformed Scale Scores for the TIMSS 2015 Student Learning Biology Scale, Eighth Grade

Raw Score	Transformed Score	Percentile Rank
0	3.722	
1	3.770	
2	3.817	
3	3.864	
4	3.911	
5	3.958	
6	4.005	
7	4.052	
8	4.099	
9	4.146	
10	4.193	
11	4.240	
12	4.287	
13	4.334	.3
14	4.381	
15	4.428	
16	4.475	
17	4.522	
18	4.569	
19	4.616	
20	4.663	
21	4.710	
22	4.757	
23	4.804	10.7
24	4.851	
25	4.898	
26	4.945	
27	4.992	



15.227

