

Item Parameters for the TIMSS 2015 Students Confident in Science Scale, Eighth Grade

Item	delta	tau_1	tau_2	tau_3	Infit
BSBS23A	-0.40602	-0.90090	-0.39226	1.29316	0.92
BSBS23B*	0.02223	-1.15732	0.20137	0.95595	1.05
BSBS23C*	0.27706	-1.01187	0.22919	0.78268	1.05
BSBS23D	-0.24566	-1.21791	-0.02344	1.24135	0.90
BSBS23E	0.17088	-1.28471	0.00993	1.27478	1.02
BSBS23F	0.09152	-1.12464	0.01922	1.10542	1.10
BSBS23G*	0.03010	-0.88164	0.03964	0.84200	1.02
BSBS23H*	0.05989	-0.92434	0.16959	0.75475	1.06

*Reverse coded

Scale Transformation Constants for the TIMSS 2015 Students Confident in Science Scale, Eighth Grade

Scale Transformation Constants	
A = 9.091884	
B = 1.615239	

Raw Score	Transformed Scale Score	Cutpoint
0	2.82098	
1	4.65523	
2	5.54634	
3	6.15963	
4	6.64373	
5	7.05126	
6	7.40989	
7	7.73394	
8	8.03689	
9	8.32242	
10	8.59538	
11	8.85979	
12	9.12033	9.2
13	9.37683	
14	9.63617	
15	9.90101	
16	10.17585	
17	10.46634	
18	10.77961	
19	11.12175	
20	11.51463	

