

Students Value Science Scale, Eighth Grade

The Students Value Science (SVS) scale was created based on students' degree of agreement with the nine statements described below.

Items in the TIMSS 2015 Students Value Science Scale, Eighth Grade

T BSBS24A	
T BSBS24B	
T BSBS24C	
T BSBS24D	
T BSBS24E	
BSBS24F	
BSBS24G	
BSBS24H	
BSBS24I	

T Trend item—item was included in the same scale in TIMSS 2011 and was used for linking the TIMSS 2011 and TIMSS 2015 scales.

Item Parameters for the TIMSS 2015 Student Value Science Scale, Eighth Grade

Item	Intercept	-1	-1/2	-1/3	-1/4
2	-0.72	-1.32	-0.21	1.720	1.12
2	0.2377	-1.011	-0.1011	2.022	1.17
2	-0.07110	-1.3211	-0.0270	1.721	0.2
2	0.2137	-1.2	0.027	1.7701	0.1
2	0.22	-1.3	0.1177	1.720	1.21
2	-0.0211	-1.07	-0.271	1.	0.2
2	-0.07333	-1.77	-0.2323	1.71	0.0
2	-0.270	-1.7771	-0.207	1.710	1.2
2	-0.7030	-1.22	-0.337	1.7	1.07

Scale Transformation Constants for the TIMSS 2015 Student Value Science Scale, Eighth Grade

Constant	Value
Intercept	8.556049
Scale Score	0.9487

Transformed Scale Score = 8.556049 + 0.9487 • Logit Scale Score

**Equivalence Table of Raw and Transformed Scale Scores for the TIMSS
2015 Student Value Science Scale, Eighth Grade**

Raw Score	Transformed Score	Equivalence Score
0	.17	
1	.2	
2	.717	
3	.11	
	.72	
7	.7302	
	.7032	
7	7.1	
	7.3377	
	7.737	
10	7.723	
11	7.1	
12	.1	
13	.30	
1	.77	
17	.7310	
1	.0022	
17	.2203	
1	.17	
1	.7007	
20	.077	
21	10.1730	
22	10.211	
23	10.7137	10.7
2	11.0	
27	11.77	
2	12.032	
27	13.1717	

