Students Like Learning Science (SLS) scale, described above. The items defining the scale are shown below.

Items in the TIMSS 2015 Students Like Learning Science Scale, Fourth Grade

		How much do you agree with these statements about learning science?			
		Agree	**Disagree**	**Disagree**	**Agree**
T	04				
T	04 *				
T	04 *				
T	04				
T	04				
	04				
	04				
	04				
	04				

T _____ _____ _____ 2011 _____ 2011 _____ 2015 _____

I em Parame ers for he TIMSS 2015 S   den s Like Learning Science Scale, Fo r h Grade

		1	2	3	
0	-0.03177	-0.?37	-0.??2	1.0?1	0.?1
0 *	0.??0	-0.31?7	-0.1?722	0.?300	1.?3
0	0.3?011	-0.?72	-0.0?02	0.?701	1.2
0	-0.?710	-0.2?23	-0.?7	0.77032	0.?
0	-0.007?2	-0.??0	-0.?00?1	0.??70	0.?
0	0.320?	-0.7?32	-0.22311	1.012?3	0.?
0	-0.?3?12	-0.?2?07	-0.?2	1.0107	1.21
0	-0.3?	-0.1??	-0.3?717	0.?212	1.3
0	0.??01	-0.73?23	-0.1?0	0.?2227	0.?3

Scale Transforma ion Cons an s for he TIMSS 2015 S   den s Like Learning Science Scale, Fo r h Grade

7.?2?2	Transformed Scale Score = 7.692952 + 1.31277 • Logit Scale Score
1.31277	

Eq i alence Table of Ra and Transformed Scale Scores for he TIMSS 2015 S   den s Like Learning Science Scale, Fo r h Grade

0	3.23	
1	. 111	
2	.0 2	
3	. 3 3	
	.7	
	.0 3	
	.2 730	
7	. 7373	
	.	
	. 1	
10	7.023 1	
11	7.1 2	
12	7.3	
13	7. 32	7.
1	7.7021	
1	7. 72	
1	.0 737	
17	.2273	
1	. 1 13	
1	. 137	
20	. 2 1	
21	.0 3	
22	.320	
23	. 2700	.
2	. 20	
2	10. 30	
2	11.20	
27	12.70 3	