



**Item Parameters for the TIMSS 2015 Science Like Learning Chemistry Scale, Eighth Grade**

Item	Intercept	Difficulty 1	Difficulty 2	Difficulty 3	Information
000	-0.02723	-1.2310	-0.110	1.22	0.7
000*	0.1	-0.27	-0.2317	1.1717	1.
000	0.2700	-1.073	-0.3270	1.017	1.7
000	-0.3330	-1.127	-0.7727	1.001	0.2
000	0.01	-1.230	-0.1771	1.310	0.2
000	0.77	-1.02	0.070	1.37	0.7
000	-0.3321	-1.12	-0.372	1.33	1.0
000	-0.77	-0.273	-0.7137	1.3317	1.2
000	0.77210	-1.27	0.0373	1.17121	0.0

**Scale Transformation Constants for the TIMSS 2015 Science Like Learning Chemistry Scale, Eighth Grade**

Intercept	9.10346
Slope	1.077212
Transformed Scale Score	$9.10346 + 1.077212 \cdot \text{Logit Scale Score}$





**Relationship Between the TIMSS 2015 Students Like Learning Chemistry Scale, Eighth Grade, and TIMSS 2015 Science Achievement**

Country	Pearson's Correlation Coefficient		Significance Level (p-value)
	(1)	(2)	
Algeria	0.20	0.0	0.0
Armenia	0.11	0.01	0.02
Bahrain	0.17	0.03	0.03
Bulgaria	0.20	0.0	0.0
Cameroon	0.1	0.02	0.02
Canada	0.31	0.10	0.0
Chile	0.2	0.0	0.0
Czechia	0.1	0.03	0.02
France	0.2	0.0	0.0
Germany	0.1	0.0	0.03
<b>Total</b>	<b>0.1</b>	<b>0.0</b>	<b>0.03</b>

Table 15.232. Relationship Between the TIMSS 2015 Students Like Learning Chemistry Scale, Eighth Grade, and TIMSS 2015 Science Achievement