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The Students Value Chemistry (SVC) scale was created based on students' degree of agreement to the six statements described below. This scale was administered in countries where the sciences are taught as separate subjects. See **Creating and Interpreting TIMSS and PIRLS 2011 Context Questionnaire Scales** for more information on how the scales were formed.

Exhibit 5: Cronbach's Alpha Reliability Coe cient and Principal Components Analysis of the Items in the TIMSS 2011 Students Value Chemistry Scale, Eighth Grade (Continued)

Country	Cronbach's Alpha Reliability Coefficient	Percent of Variance Explained	Factor Loadings for Each Item					
			BSBC28J	BSBC28K	BSBC28L	BSBC28M	BSBC28N	BSBC26G
Morocco	0.86	59	0.73	0.79	0.85	0.84	0.73	0.64
Romania	0.89	65	0.78	0.79	0.87	0.87	0.80	0.72
Russian Federation	0.89	64	0.78	0.77	0.89	0.88	0.81	0.64
Slovenia	0.88	63	0.81	0.77	0.85	0.86	0.76	0.69
Sweden	0.89	64	0.78	0.79	0.87	0.87	0.77	0.70
Syrian Arab Republic	0.85	57	0.73	0.79	0.83	0.82	0.72	0.62
Ukraine	0.88	64	0.82	0.80	0.85	0.85	0.73	0.71

Exhibit 6: Relationshill Stubil 1886 Students Value Chemistry Scale, Eighth Grade (Continue (Con