

PIRLS 2011

The PIRLS 2011 Instruction to Engage Students in Learning Scale

The Instruction to Engage Students in Learning (IES) scale was created based on teachers' responses to how often they used each of six instructional practices described below. 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 Coefficient and Principal Components Analysis of the Items in the PIRLS 2011 Instruction to Engage Students in Learning Scale (Continued)

Country	Cronbach's Alpha	Principal Component Eigenvalue	Principal Component Loadings					
			PC1	PC2	PC3	PC4	PC5	PC6
Botswana	0.46	27	0.61	0.67	0.51	0.17	0.39	0.62
Colombia	0.47	29	0.41	0.59	0.61	0.34	0.63	0.56
South Africa	0.59	34	0.62	0.68	0.66	0.49	0.41	0.57

Republic of South Africa (RSA) tested 5th grade students receiving instruction in English (ENG) or Afrikaans (AFR).

Exhibit 6: Relationship Between the PIRLS 2011 Instruction to Engage Students in Learning Scale and PIRLS 2011 Achievement

Country	Instruction to Engage Students in Learning Scale		PIRLS 2011 Achievement (r ²)
	Correlation (r)	Adjusted R-squared (r ²)	
Australia	0.07	0.00	0.00
Austria	-0.03	0.00	0.00
Azerbaijan	0.09	0.01	0.01
Belgium (French)	0.04	0.00	0.00
Bulgaria	0.05	0.00	0.00
Canada	0.02	0.00	0.00
Chinese Taipei	0.00	0.00	0.00
Colombia	0.10	0.01	0.01
Croatia	0.02	0.00	0.00
Czech Republic	0.04	0.00	0.00
Denmark	0.03	0.00	0.00
England	0.00	0.00	0.00
Finland	0.02	0.00	0.00
France	0.06	0.00	0.00
Georgia	0.03	0.00	0.00
Germany	-0.06	0.00	0.01
Hong Kong SAR	-0.02	0.00	0.00
Hungary	-0.02	0.00	0.00
Indonesia	0.09	0.01	0.01
Iran, Islamic Rep. of	0.13	0.02	0.01
Ireland	-0.03	0.00	0.00
Israel	-0.07	0.01	0.00
Italy	-0.09	0.01	0.01
Lithuania	0.02	0.00	0.00
Malta	-0.02	0.00	0.00
Morocco	0.11	0.01	0.01
Netherlands	-0.01	0.00	0.00
New Zealand	0.06	0.00	0.00

Exhibit 6: Relationship Between the PIRLS 2011 Instruction to Engage Students in Learning Scale and PIRLS 2011 Achievement (Continued)

Country	Pearson Correlation		Adjusted R-squared
	(r)	(r ²)	
Northern Ireland	-0.01	0.00	0.00
Norway	0.08	0.01	0.00
Oman	0.05	0.00	0.00
Poland	-0.01	0.00	0.00
Portugal	-0.01	0.00	0.00
Qatar	0.05	0.00	0.00
Romania	-0.01	0.00	0.00
Russian Federation	0.05	0.00	0.00
Saudi Arabia	0.16	0.02	0.01
Singapore	0.01	0.00	0.00
Slovak Republic	0.01	0.00	0.00
Slovenia	-0.02	0.00	0.00
Spain	0.02	0.00	0.00
Sweden	-0.02	0.00	0.00
Trinidad and Tobago	0.05	0.00	0.01
United Arab Emirates	0.07	0.01	0.00
United States	0.01	0.00	0.00
Interim Mean	0.02	0.00	0.00
Group 1			
Botswana	0.12	0.01	0.00
Honduras	0.05	0.00	0.02
Kuwait	0.03	0.00	0.00
Morocco	0.01	0.00	0.00
Group 2			
Alberta, Canada	0.01	0.00	0.00
Ontario, Canada	0.02	0.00	0.00
Quebec, Canada	0.03	0.00	0.00
Maltese - Malta	-0.01	0.00	0.00
Eng/Afr (5) - RSA	-0.16	0.03	0.00
Andale [unclear] [unclear]	0.00		0.00
0.00			0.00
			0.00
			0.00
			0.00