



Exhibit 6: Relationship Between the TIMSS 2011 Instruction to Engage Students in Learning Scale, Eighth Grade, and TIMSS 2011 Achievement

Country	Pearson's Correlation with Achievement				Variance in Achievement Accounted for by Difference Between Regions of the Scale (%)	
	(r)		(r ²)			
	Mathematics	Science	Mathematics	Science	Mathematics	Science
Algeria	0.08	0.01	0.01	0.00	0.00	0.00
Algeria	0.05	0.02	0.00	0.00	0.00	0.00
Bahrain	0.08	0.20	0.01	0.04	0.01	0.02
Chile	0.13	0.03	0.02	0.00	0.01	0.01
Chile eTaipei	0.06	0.04	0.00	0.00	0.01	0.00
Egypt	0.08	0.00	0.01	0.00	0.04	0.00
Finland	0.02	0.04	0.00	0.00	0.00	0.00
Georgia	0.07	0.02	0.01	0.00	0.00	0.00
Ghana	0.03	0.02	0.00	0.00	0.00	0.00
HongKongSAR	0.06	0.11	0.00	0.01	0.01	0.00
HongKong	0.01	0.05	0.00	0.00	0.00	0.00
Indonesia	0.18	0.10	0.03	0.01	0.05	0.00
Israel,Jerusalem	0.06	0.03	0.00	0.00	0.01	0.01
Israel	0.00	0.05	0.00	0.00	0.00	0.01
Japan	0.10	0.10	0.01	0.01	0.00	0.00
Japan	0.04	0.02	0.00	0.00	0.00	0.00
Jordan	0.08	0.02	0.01	0.00	0.01	0.00
Kazakhstan	0.18	0.09	0.03	0.01	0.04	0.01
Korea,Republ.	0.05	0.02	0.00	0.00	0.00	0.00
Lebanon	0.10	0.08	0.01	0.01	0.00	0.01
Lithuania	0.03	0.00	0.00	0.00	0.00	0.00
Macedonia,Republ.	0.17	0.11	0.03	0.01	0.02	0.01
Mexico	0.09	0.02	0.01	0.00	0.02	0.00
Mexico	0.10	0.03	0.01	0.00	0.01	0.00
NewZealand	0.10	0.02	0.01	0.00	0.01	0.00
Norway	0.03	0.04	0.00	0.00	0.00	0.00
Oman	0.20	0.06	0.04	0.00	0.02	0.00
PalestineNa'Alh.	0.03	0.03	0.00	0.00	0.00	0.00
Qatar	0.12	0.02	0.01	0.00	0.02	0.00
Russia	0.10	0.08	0.01	0.01	0.01	0.01
RussiaFederation	0.02	0.02	0.00	0.00	0.01	0.00
SaudiArabia	0.14	0.05	0.02	0.00	0.00	0.00
Singapore	0.06	0.02	0.00	0.00	0.01	0.00
Slovenia	0.01	0.00	0.00	0.00	0.00	0.00
Slovenia	0.01	0.03	0.00	0.00	0.00	0.00
Sri Lanka	0.08	0.05	0.01	0.00	0.00	0.00
Thailand	0.03	0.01	0.00	0.00	0.00	0.00
Turkey	0.06	0.01	0.00	0.00	0.00	0.00

Exhibit 6: Relationship Between the TIMSS 2011 Instruction to Engage Students in Learning Scale, Eighth Grade, and TIMSS 2011 Achievement (Continued)

Country	Pearson's Correlation with Achievement				Variance in Achievement Accounted for by Difference Between Regions of the Scale (%)	
	(r)		(r ²)		Mathematics	Science
	Mathematics	Science	Mathematics	Science		
T e	0.05	0.01	0.00	0.00	0.01	0.00
U ai e	0.10	0.08	0.01	0.01	0.00	0.00
U i ed A ab E i a e	0.08	0.04	0.01	0.00	0.00	0.00
U i ed S a e	0.03	0.06	0.00	0.00	0.00	0.00
International Median	0.06	0.02	0.00	0.00	0.00	0.00
Ninth Grade Participants						
B a a	0.07	0.02	0.01	0.00	0.00	0.00
H d a	0.01	0.06	0.00	0.00	0.00	0.00
S h Af ica	0.02	0.09	0.00	0.01	0.00	0.01
Benchmarking Participants						
A be a, Ca ada	0.01	0.06	0.00	0.00	0.00	0.00
O ai , Ca ada	0.02	0.03	0.00	0.00	0.01	0.00
Q ebec, Ca ada	0.09	0.09	0.01	0.01	0.02	0.00
Ab Dhabi, UAE	0.04	0.02	0.00	0.00	0.02	0.01
D bai, UAE	0.19	0.10	0.03	0.01	0.03	0.02
A aba a, US	0.01	0.03	0.00	0.00	0.00	0.01
Ca if ia, US	0.01	0.05	0.00	0.00	0.00	0.03
C ad , US	0.08	0.01	0.01	0.00	0.01	0.00
C ec ic , US	0.09	0.04	0.01	0.00	0.01	0.02
F ida, US	0.32	0.03	0.10	0.00	0.06	0.00
I dia a, US	0.10	0.02	0.01	0.00	0.02	0.00
Ma ach e , US	0.12	0.13	0.01	0.02	0.02	0.00
Mi e a, US	0.07	0.01	0.01	0.00	0.00	0.00
N h Ca ia, US	0.04	0.11	0.00	0.01	0.00	0.01