TIMSS 2011

The TIMSS 2011 Students Confident in Physics Scale, Eighth Grade

e S de : C / de : P / . c (SCP) . ca e a ea ed ba ed de : ' deg ee f ag ee e : : e e . : a e e : de d bed be . . . ca e a ad . : e ed c : e e ce e a e : a g : a . e a a e . be c . . See C I IM PIRL 2011 C Q f e f a : e . ca e . e f ed.

Exhibit 1: Items in the TIMSS 2011 Students Confident in Physics Scale, Eighth Grade

How much do you agree with these statements about physics?

	Agree a lot	Agree a little	Disagree a little	Disagree a lot
1) I	A	A	A	A
2)	A	A	A	A
3)	A	A	A	A
4) I	A	A	A	A
5)	A	A	A	A
6) I	A	A	A	A
7) < / / >	A	A	A	A
8) I		A	A	A
9)	A	A	A	A

Somewhat

Exhibit 5: Cronbach's Alpha Reliability Coefficient and Principal Components Analysis of the Items in the TIMSS 2011 Students Confident in Physics Scale, Eighth Grade

Country	Cronbach's Alpha Reliability Coefficient	Percent of Variance Explained	Factor Loadings for Each Item								
			BSBP32A	BSBP32B*	BSBP32C*	BSBP32D	BSBP32E*	BSBP32F	BSBP32G	BSBP32H	BSBP32I*
A	0.78	40	0.85	0.28	0.15	0.80	0.21	0.84	0.81	0.87	0.16
F	0.92	61	0.87	0.73	0.80	0.85	0.63	0.83	0.83	0.82	0.64
G	0.84	45	0.78	0.54	0.60	0.80	0.46	0.78	0.77	0.77	0.43
H	0.90	55	0.84	0.63	0.76	0.82	0.57	0.81	0.81	0.84	0.56
I	0.79	38	0.75	0.48	0.49	0.75	0.55	0.65	0.67	0.73	0.39
K	0.87	51	0.78	0.65	0.71	0.80	0.49	0.82	0.79	0.81	0.48
L b	0.79	39	0.76	0.41	0.36	0.79	0.37	0.75	0.73	0.81	0.34
L	0.88	51	0.83	0.65	0.61	0.82	[illegible]				