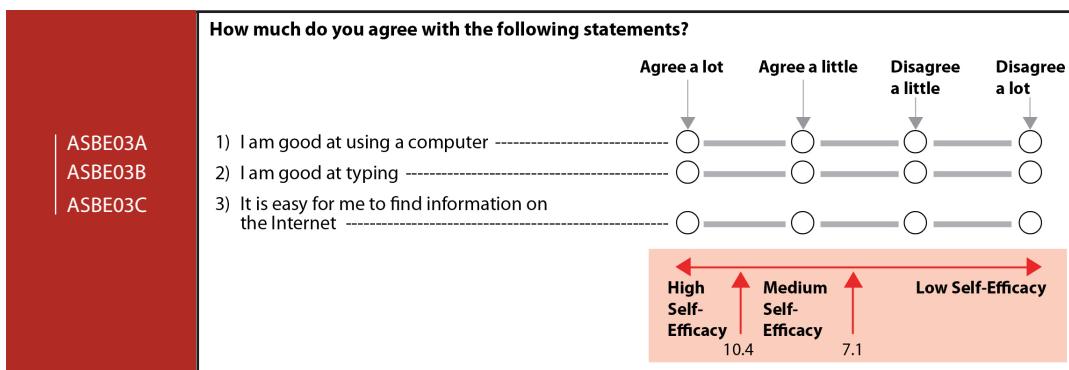


## Self-Efficacy for Computer Use Scale

The *Self-Efficacy for Computer Use* (SEC) scale was created based on students' degree of agreement with the three statements described below.

### Items in the ePIRLS 2016 Self-Efficacy for Computer Use Scale



**Item Parameters for the ePIRLS 2016 Self-Efficacy for Computer Use Scale**

Item	delta	tau_1	tau_2	tau_3	Infit
ASBE03A	-0.30146	-0.63034	-0.70712	1.33746	0.95
ASBE03B	0.28602	-0.73511	-0.61080	1.34591	0.97
ASBE03C	0.01544	-0.88525	-0.38788	1.27313	1.04

**Scale Transformation Constants for the ePIRLS 2016 Self-Efficacy for Computer Use Scale**

**Scale Transformation Constants**

A = 7.582113

Transformed Scale Score = 7.582113 + 1.557903 • Logit Scale Score

B = 1.557903

**Equivalence Table of the Raw Score and Transformed Scale Scores for the ePIRLS 2016 Self-Efficacy for Computer Use Scale**

Raw Score	Transformed Scale Score	Cutpoint
0	3.53502	
1	5.02075	
2	5.81380	
3	6.43388	
4	7.02434	7.1
5	7.63722	
6	8.34823	
7	9.25796	
8	10.49854	10.4
9	12.62271	

SOURCE: IEA's Progress in International Reading Literacy Study - PIRLS 2016

SOURCE: IEA's Progress in International Reading Literacy Study - PIRLS 2016

**Cronbach's Alpha Reliability Coefficient and Principal Components Analysis  
of the Items in the ePIRLS 2016 Self-Efficacy for Computer Use Scale**

Country	Cronbach's Alpha Reliability Coefficient	Percent of Variance Explained	Component Loadings for Each Item		
			ASBE03A	ASBE03B	ASBE03C
Canada	0.57	54	0.78	0.77	0.65
Chinese Taipei	0.66	60	0.77	0.79	0.76
Denmark	0.68	61	0.79	0.81	0.75
Georgia	0.51	52	0.78	0.61	0.77
Ireland	0.67	61	0.82	0.81	0.70
Israel	0.63	58	0.79	0.79	0.71
Italy	0.69	63	0.82	0.80	0.75
Norway (5)	0.66	60	0.81	0.79	0.72
Portugal	0.66	60	0.84	0.81	0.67
Singapore	0.64	59	0.81	0.78	0.69
Slovenia	0.68	62	0.83	0.79	0.74
Sweden	0.71	64	0.85	0.83	0.71
United Arab Emirates	0.57	54	0.76	0.75	0.69
United States	0.58	55	0.78	0.75	0.69
<b>Benchmarking Participants</b>					
Abu Dhabi, UAE	0.55	53	0.75	0.76	0.67
Dubai, UAE	0.58	54	0.76	0.77	0.68

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2016

**Relationship Between the ePIRLS 2016 Self-Efficacy for Computer Use Scale and ePIRLS 2016 Online Informational Reading Achievement**

Country	Pearson's Correlation with ePIRLS Achievement		Variance in ePIRLS Achievement Accounted for by Difference Between Regions of the Scale ( $\eta^2$ )
	(r)	( $r^2$ )	
Canada	0.08	0.01	0.01
Chinese Taipei	0.08	0.01	0.01
Denmark	0.14	0.02	0.03
Georgia	0.14	0.02	0.02
Ireland	0.06	0.00	0.01
Israel	0.12	0.01	0.02
Italy	0.03	0.00	0.00
Norway (5)	0.12	0.01	0.02
Portugal	0.10	0.01	0.01
Singapore	0.10	0.01	0.01
Slovenia	0.06	0.00	0.00
Sweden	0.07	0.01	0.02
United Arab Emirates	0.16	0.03	0.03
United States	0.07	0.00	0.01
International Median	0.09	0.01	0.01
<b>Benchmarking Participants</b>			
Abu Dhabi, UAE	0.17	0.03	0.04
Dubai, UAE	0.14	0.02	0.02

SOURCE: IEA's Progress in International Reading Literacy Study – PIRLS 2016