

**Exhibit 5.15: Trends in Student Populations – PIRLS 2016**

Country	Years of Formal Schooling*				Average Age at Time of Testing				Overall Exclusion Rates				Overall Participation Rates (After Replacement)			
	2016	2011	2006	2001	2016	2011	2006	2001	2016	2011	2006	2001	2016	2011	2006	2001
Australia	4	4			10.0	10.0			4.8%	4.4%			94%	93%		
Austria	4	4	4		10.3	10.3	10.3		5.6%	5.1%	5.1%		98%	98%	97%	
Azerbaijan	4	4			10.1	10.2			2.1%	7.2%			96%	100%		
Belgium (Flemish)	4		4		10.1		10.0		1.6%		7.1%		92%		91%	
Belgium (French)	4	4	4		10.0	10.1	9.9		6.0%	5.6%	3.9%		97%	82%	95%	
Bulgaria	4	4	4	4	10.8	10.7	10.9	10.9	4.3%	2.5%	6.4%	2.7%	95%	95%	94%	93%
Canada	4	4			9.9	9.9			7.5%	9.9%			86%	94%		
Chinese Taipei	4	4	4		10.1	10.2	10.1		0.9%	1.4%	2.9%		98%	99%	99%	
Czech Republic	4	4		4	10.3	10.4		10.5	3.4%	5.1%		5.0%	95%	94%		90%
Denmark	4	4	4		10.8	10.9	10.9		9.8%	7.3%	6.2%		90%	95%	96%	
England	5	5	5	5	10.3	10.3	10.3	10.2	3.7%	2.4%	2.4%	5.7%	96%	82%	92%	82%
Finland	4	4			10.8	10.8			2.4%	3.1%			96%	95%		
France	4	4	4	4	9.8	10.0	10.0	10.1	5.4%	5.2%	3.8%	5.3%	96%	97%	95%	94%
Georgia	4	4	4		9.7	10.0	10.1		3.8%	4.9%	7.3%		96%	96%	98%	
Germany	4	4	4	4	10.3	10.4	10.5	10.5	4.2%	1.9%	0.7%	1.8%	95%	95%	92%	86%
Hong Kong SAR	4	4	4	4	9.9	10.1	10.0	10.2	10.1%	11.8%	3.9%	2.8%	79%	83%	97%	97%
Hungary	4	4	4	4	10.6	10.7	10.7	10.7	4.5%	4.2%	3.7%	2.1%	97%	96%	97%	95%
Iran, Islamic Rep. of	4	4	4	4	10.2	10.2	10.2	10.4	4.1%	4.5%	3.8%	0.5%	99%	99%	99%	98%
Ireland	4	4			10.5	10.3			3.1%	2.5%			96%	95%		
Israel	4	4			10.0	10.1			24.9%	24.6%			94%	93%		
Italy	4	4	4	4	9.7	9.7	9.7	9.9	4.9%	3.7%	5.3%	2.9%	95%	95%	97%	98%
Latvia	4		4	4	10.9		11.0	11.0	7.9%		4.7%	4.6%	91%		92%	89%
Lithuania	4	4	4	4	10.8	10.7	10.7	10.9	4.2%	5.6%	5.1%	3.8%	95%	94%	92%	83%
Malta	5	5			9.7	9.8			7.9%	4.1%			96%	94%		
Morocco	4	4			10.2	10.5			1.7%	2.0%			99%	95%		
Netherlands	4	4	4	4	10.1	10.2	10.3	10.3	3.1%	3.7%	3.6%	3.7%	86%	89%	90%	87%
New Zealand	4.5 - 5.5	4.5 - 5.5	4.5 - 5.5	4.5 - 5.5	10.1	10.1	10.0	10.1	3.7%	3.3%	5.3%	3.2%	92%	93%	95%	96%
Northern Ireland	4	4			10.4	10.4			3.0%	3.5%			84%	79%		
Norway (4)	4	4	4	4	9.8	9.7	9.8	10.0	5.1%	4.2%	3.8%	2.8%	95%	71%	71%	82%
Oman	4	4			9.7	9.9			0.6%	1.5%			98%	96%		
Portugal	4	4			9.8	10.0			7.5%	2.5%			93%	93%		
Qatar	4	4			10.0	10.0			3.9%	6.2%			97%	99%		
Russian Federation	4	4	3 or 4	3 or 4	10.8	10.8	10.8	10.3	4.1%	5.3%	5.9%	6.6%	98%	98%	97%	97%
Saudi Arabia	4	4			9.9	10.0			2.3%	1.6%			96%	98%		

**Exhibit 5.15: Trends in Student Populations – PIRLS 2016 (Continued)**

Country	Years of Formal Schooling*				Average Age at Time of Testing				Overall Exclusion Rates				Overall Participation Rates (After Replacement)			
	2016	2011	2006	2001	2016	2011	2006	2001	2016	2011	2006	2001	2016	2011	2006	2001
Singapore	4	4	4	4	10.4	10.4	10.4	10.1	11.1%	6.3%	0.9%	0.1%	97%	96%	95%	98%
Slovak Republic	4	4	4	4	10.4	10.4	10.4	10.3	4.8%	4.6%	3.6%	2.0%	97%	96%	94%	96%
Slovenia	4	4	3 or 4	3	9.9	9.9	9.9	9.8	2.4%	2.6%	0.8%	0.3%	90%	94%	93%	94%
South Africa	4	4			10.6	10.5			2.5%	3.0%			94%	95%		
Spain	4	4	4		9.9	9.9	9.9		4.8%	5.4%	5.3%		97%	96%	97%	
Sweden	4	4	4	4	10.7	10.7	10.9	10.8	5.2%	4.1%	3.9%	5.0%	95%	91%	96%	92%
Trinidad and Tobago	5	5	5		10.2	10.3	10.1		1.3%	0.9%	0.7%		96%	95%	94%	
United Arab Emirates	4	4			9.8	9.8			3.3%	3.3%			95%	97%		
United States	4	4	4	4	10.1	10.2	10.1	10.2	4.8%	7.2%	5.9%	5.3%	86%	81%	82%	83%

**Benchmarking Participants**

Ontario, Canada	4	4	4	4	9.8	9.9	9.8	9.9	4.1%	7.9%	8.3%	6.6%	93%	95%	87%	92%
Quebec, Canada	4	4	4	4	10.1	10.1	10.1	10.2	5.1%	3.7%	3.6%	3.3%	64%	92%	81%	89%
Eng/Afr/Zulu - RSA (5)	5		5		11.6		11.7		1.1%		4.3%		86%		88%	
Andalusia, Spain	4	4			9.8	9.9			4.2%	5.1%			96%	96%		
Abu Dhabi, UAE	4	4			9.7	9.7			3.9%	2.7%			96%	96%		
Dubai, UAE	4	4			9.9	9.9			3.2%	5.1%			95%	94%		

\* Represents years of schooling counting from the first year of ISCED Level 1.

An empty cell indicates a country did not participate in that year's assessment or did not have comparable data.

Trend results for Azerbaijan do not include students taught in Russian. Trend results for Lithuania do not include students taught in Polish or Russian.

Austria's increased exclusions in 2016 resulted from more non-native language speakers, probably due to the refugee crisis in Europe.

Canada's decreased exclusions in 2016 resulted from provinces formerly reported as exclusions to be considered not covered by the target population.

Georgian schools in South Ossetia and Abkhazia were excluded in 2011 and 2016 due to lack of access and absence of official statistics. Abkhazia refugee schools in other territories of Georgia were included in the sample frame.

Hong Kong SAR's increased exclusions in 2011 and 2016 resulted from excluding international schools and schools organized by the English Schools Foundation. These schools do not follow Hong Kong's central curriculum and medium of instruction.

Singapore's increased exclusions in 2016 resulted from increased enrollment in private schools, which predominantly serve international students and are different from public schools in many respects (e.g., different language of instruction and calendar year).

Republic of South Africa (RSA) tested 5th grade students receiving instruction in English (Eng), Afrikaans (Afr) and Zulu. Exclusion and participation rates from 2006 are for the entire country of South Africa.