

Appendix B.11: Trends in Student Populations

Country	Years of Formal Schooling*	Average Age at Time of Testing	Overall Exclusion Rates	Overall Participation Rates (After Replacement)
Australia				
2019	8	14.1	3.8%	91%
2015	8	14.0	3.5%	90%
2011	8	14.0	3.2%	88%
2007	8	13.9	1.9%	93%
2003	8	13.9	1.3%	83%
‡ 1995	8 or 9	14.2	0.8%	70%
Bahrain				
2019	8	13.8	0.6%	97%
2015	8	14.0	3.8%	97%
⊗ 2011	8	14.4	1.6%	97%
2007	8	14.1	1.5%	97%
2003	8	14.1	0.0%	98%
Chile				
2019	8	14.2	2.2%	95%
2015	8	14.3	1.9%	85%
2011	8	14.2	2.8%	95%
2003	8	14.2	2.2%	99%
1999	8	14.4	2.8%	96%
Chinese Taipei				
2019	8	14.3	1.5%	97%
2015	8	14.3	1.7%	98%
2011	8	14.2	1.3%	99%
2007	8	14.2	3.3%	99%
2003	8	14.2	4.8%	99%
1999	8	14.2	1.6%	99%
Cyprus				
2019	8	13.8	2.8%	96%
2007	8	13.8	2.5%	96%
2003	8	13.8	2.5%	96%
1999	8	13.8	0.8%	97%
1995	8	13.7	0.0%	97%
Egypt				
² 2019	8	13.9	9.1%	97%
2015	8	14.1	0.1%	91%
2007	8	14.1	0.5%	98%
2003	8	14.4	3.4%	97%
England				
2019	9	14.0	4.8%	85%
2015	9	14.1	2.3%	92%
‡ 2011	9	14.2	2.2%	70%
† 2007	9	14.2	2.3%	75%
≡ 2003	9	14.3	2.1%	46%
† 1999	9	14.2	5.0%	77%
³ † 1995	9	14.0	11.3%	77%
Finland				
2019	8	14.8	3.1%	95%
2011	8	14.8	3.4%	93%
France				
2019	8	13.9	3.8%	97%
1995	8	14.3	2.0%	82%
Georgia				
¹ 2019	8	13.8	4.3%	89%
^{1,2} 2015	8	13.7	6.0%	98%
¹ 2011	8	14.2	4.5%	97%
¹ 2007	8	14.2	3.9%	97%
Hong Kong SAR				
† 2019	8	14.1	3.3%	81%
2015	8	14.2	1.6%	81%
2011	8	14.2	5.3%	75%
† 2007	8	14.4	3.8%	75%
† 2003	8	14.4	3.4%	80%
† 1999	8	14.2	0.8%	74%
1995	8	14.2	2.0%	81%

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

Data are included only for assessment years with comparable results for each country.

See Appendix B.7 for population coverage notes 1, 2, and 3. See Appendix B.10 for sampling guidelines and sampling participation notes †, ‡, and ≡.

⊗ Tested the same cohort of students as other countries, but later in the assessment year.

Egypt's 2015 exclusion rate may be underestimated.

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

Appendix B.11: Trends in Student Populations

(Continued)

Country	Years of Formal Schooling*	Average Age at Time of Testing	Overall Exclusion Rates	Overall Participation Rates (After Replacement)
Hungary				
2019	8	14.6	4.4%	96%
2015	8	14.7	5.4%	96%
2011	8	14.7	4.4%	95%
2007	8	14.6	3.9%	96%
² 2003	8	14.5	8.5%	94%
1999	8	14.4	4.3%	93%
1995	8	14.3	3.8%	87%
Iran, Islamic Rep. of				
2019	8	14.1	0.9%	98%
2015	8	14.2	2.2%	98%
2011	8	14.3	2.2%	99%
2007	8	14.2	0.5%	98%
² 2003	8	14.4	6.5%	98%
1999	8	14.6	4.4%	98%
1995	8	14.6	0.3%	98%
Ireland				
2019	8	14.4	1.0%	86%
2015	8	14.4	1.2%	91%
1995	8	14.4	0.4%	81%
Israel				
³ 2019	8	14.0	23.2%	91%
³ 2015	8	14.0	22.8%	93%
³ 2011	8	14.0	22.6%	92%
Italy				
2019	8	13.7	4.3%	97%
² 2015	8	13.8	6.1%	93%
2011	8	13.8	4.7%	93%
2007	8	13.9	5.0%	96%
2003	8	13.9	3.6%	97%
² 1999	8	14.0	6.7%	97%
Japan				
2019	8	14.4	1.8%	88%
2015	8	14.5	2.3%	93%
2011	8	14.5	2.8%	87%
2007	8	14.5	3.5%	91%
2003	8	14.4	0.6%	93%
1999	8	14.4	1.3%	89%
1995	8	14.4	0.6%	90%
Jordan				
2019	8	13.9	0.2%	98%
2015	8	13.8	1.0%	96%
2011	8	13.9	0.4%	96%
2007	8	14.0	2.0%	96%
2003	8	13.9	1.3%	96%
1999	8	14.0	3.0%	99%
Kazakhstan				
² 2019	8	14.3	5.8%	99%
2011	8	14.6	5.1%	98%
Korea, Rep. of				
2019	8	14.5	1.6%	98%
2015	8	14.4	2.1%	98%
2011	8	14.3	1.9%	99%
2007	8	14.3	1.6%	99%
^Δ 2003	8	14.6	4.9%	98%
1999	8	14.4	4.0%	100%
1995	8	14.2	3.8%	95%
Kuwait				
2019	8	13.8	2.0%	96%
2015	8	13.7	3.3%	85%
Lebanon				
2019	8	14.0	1.2%	88%
2015	8	14.2	1.3%	88%
2011	8	14.3	1.4%	94%
2007	8	14.4	1.4%	85%
2003	8	14.6	1.4%	91%

* Represents years of schooling counting from the first year of ISCED Level 1. Data are included only for assessment years with comparable results for each country. See Appendix B.7 for population coverage notes 1, 2, and 3. See Appendix B.10 for sampling guidelines and sampling participation notes †, ‡, and ≡. Δ Tested the same cohort of students as other countries, but later in the assessment year.

Appendix B.11: Trends in Student Populations

(Continued)

Country	Years of Formal Schooling*	Average Age at Time of Testing	Overall Exclusion Rates	Overall Participation Rates (After Replacement)
Lithuania				
2019	8	14.7	5.3%	92%
² 2015	8	14.7	7.0%	93%
¹ 2011	8	14.7	4.8%	92%
¹ 2007	8	14.9	4.2%	90%
¹ 2003	8	14.9	2.6%	84%
¹ 1999	8	15.2	4.5%	89%
^{1,2} 1995	8	14.3	6.6%	83%
Malaysia				
2019	8	14.3	3.2%	98%
2015	8	14.3	4.3%	98%
2011	8	14.4	0.1%	98%
2007	8	14.3	3.3%	98%
2003	8	14.3	4.0%	98%
1999	8	14.4	4.6%	99%
Morocco				
2019	8	14.5	0.0%	98%
2015	8	14.5	0.0%	95%
2011	8	14.7	0.1%	94%
New Zealand				
[†] 2019	8.5 - 9.5	13.9	4.2%	81%
[†] 2015	8.5 - 9.5	14.1	3.1%	81%
2011	8.5 - 9.5	14.1	3.2%	88%
2003	8.5 - 9.5	14.1	4.4%	90%
1999	8.5 - 9.5	14.0	2.4%	91%
1995	8.5 - 9.5	14.0	1.7%	94%
Norway (9)				
[†] 2019	9	14.7	4.0%	84%
2015	9	14.7	3.7%	87%
Norway (8)				
2015	8	13.7	4.1%	87%
2011	8	13.7	1.9%	84%
2007	8	13.8	2.6%	86%
2003	7	13.8	2.3%	85%
1995	7	13.9	2.2%	93%
Oman				
2019	8	13.9	2.2%	99%
2015	8	14.0	0.4%	96%
2011	8	14.1	1.2%	97%
2007	8	14.3	1.2%	99%
Portugal				
2019	8	14.0	5.5%	94%
1995	8	14.5	0.3%	92%
Qatar				
2019	8	14.0	2.2%	97%
2015	8	14.1	3.2%	96%
2011	8	14.0	4.5%	99%
Romania				
2019	8	14.8	3.2%	94%
2011	8	14.9	1.3%	99%
2007	8	15.0	1.8%	97%
2003	8	15.0	0.5%	98%
1999	8	14.8	3.7%	97%
1995	8	14.6	2.8%	89%
Russian Federation				
² 2019	8	14.8	5.7%	97%
2015	8	14.7	3.7%	97%
² 2011	8	14.7	6.0%	98%
2007	7 or 8	14.6	2.3%	97%
2003	7 or 8	14.2	5.5%	96%
1999	7 or 8	14.1	1.7%	97%
² 1995	7 or 8	14.0	6.3%	95%
Saudi Arabia				
² 2019	8	13.9	10.0%	99%
2015	8	14.1	2.1%	97%
2011	8	14.1	1.2%	98%

* Represents years of schooling counting from the first year of ISCED Level 1. Data are included only for assessment years with comparable results for each country. See Appendix B.7 for population coverage notes 1, 2, and 3. See Appendix B.10 for sampling guidelines and sampling participation notes †, ‡, and ≡. † Tested the same cohort of students as other countries, but later in the assessment year. Results for Lithuania before 2015 do not include students taught in Polish or Russian. Lithuania in 1999 tested the same cohort of students as other countries, but later in the assessment year.

Appendix B.11: Trends in Student Populations

(Continued)

Country	Years of Formal Schooling*	Average Age at Time of Testing	Overall Exclusion Rates	Overall Participation Rates (After Replacement)
Singapore				
² 2019	8	14.3	10.3%	96%
² 2015	8	14.4	7.0%	97%
² 2011	8	14.4	6.0%	95%
2007	8	14.4	1.8%	95%
2003	8	14.3	0.0%	97%
1999	8	14.4	0.0%	98%
1995	8	14.5	4.6%	95%
South Africa (9)				
2019	9	15.5	1.1%	96%
^Δ 2015	9	15.7	1.5%	96%
2011	9	16.0	1.4%	95%
Sweden				
² 2019	8	14.8	6.3%	91%
2015	8	14.7	5.4%	94%
2011	8	14.8	5.1%	92%
2007	8	14.8	3.6%	94%
2003	8	14.9	2.8%	87%
1995	7	14.9	0.9%	90%
Turkey				
2019	8	13.9	3.4%	99%
2015	8	13.9	1.3%	98%
2011	8	14.0	1.5%	97%
United Arab Emirates				
2019	8	13.7	2.4%	96%
2015	8	13.9	3.6%	97%
2011	8	13.9	2.8%	97%
United States				
[†] 2019	8	14.2	3.9%	79%
[†] 2015	8	14.2	5.1%	78%
² 2011	8	14.2	7.2%	81%
^{2†} 2007	8	14.3	7.9%	77%
[‡] 2003	8	14.2	4.9%	73%
1999	8	14.2	3.9%	85%
[†] 1995	8	14.2	2.1%	78%
Benchmarking Participants				
Ontario, Canada				
2019	8	13.8	5.5%	88%
2015	8	13.8	2.5%	87%
² 2011	8	13.8	5.6%	93%
² 2007	8	13.8	6.2%	89%
² 2003	8	13.8	6.0%	89%
1999	8	13.9	5.1%	93%
1995	8	14.0	-	90%
Quebec, Canada				
[‡] 2019	8	14.2	4.2%	73%
[≡] 2015	8	14.3	5.3%	58%
2011	8	14.2	4.9%	88%
³ 2007	8	14.2	13.6%	77%
2003	8	14.2	4.8%	85%
1999	8	14.3	1.3%	92%
1995	8	14.5	-	89%
Abu Dhabi, UAE				
2019	8	13.7	1.7%	96%
2015	8	13.9	4.1%	98%
2011	8	13.8	1.7%	96%
Dubai, UAE				
² 2019	8	13.9	5.5%	96%
2015	8	13.9	5.2%	97%
2011	8	13.9	4.0%	95%
^{Δ‡} 2007	8	14.2	5.0%	69%

* Represents years of schooling counting from the first year of ISCED Level 1.
 Data are included only for assessment years with comparable results for each country.
 See Appendix B.7 for population coverage notes 1, 2, and 3. See Appendix B.10 for sampling guidelines and sampling participation notes †, ‡, and ≡.
^Δ Tested the same cohort of students as other countries, but later in the assessment year.
 Ontario and Quebec in 1995 and 1999 participated as part of Canada. A dash (-) indicates comparable data not available.