Exhibit B.6: Trends in Student Populations

Country	Years of Formal Schooling*	Average Age at Time of Testing	Overall Exclusion Rates	Overall Participation Rates (After Replacement)
Albania				
[2][≡] 2023	4	10.1	8.2%	48%
2019	4	10.0	4.2%	98%
Armenia				
[2] 2023	4	9.9	6.1%	95%
2019	4	9.9	1.2%	97%
2015	4	9.9	1.0%	96%
2011	4	10.0	2.0%	98%
2003	4	10.9	2.9%	90%
Australia				
2023	4	10.1	3.7%	90%
2019	4	10.1	4.8%	94%
2015	4	10.0	4.2%	94%
2011	4	10.0	4.4%	93%
2007	4	9.9	4.0%	95%
[†] 2003	4	9.9	2.7%	85%
[≡] 1995	4	9.9	1.8%	66%
Azerbaijan				
2023	4	10.0	2.9%	92%
2019	4	10.3	2.6%	92%
[2] 2011	4	10.2	7.2%	100%
Bahrain				
2023	4	10.0	1.1%	98%
2019	4	9.8	0.8%	98%
[2] 2015	4	9.9	5.6%	99%
2011	4	10.4	1.1%	90%
Belgium (Flemish)				
[2][†] 2023	4	10.0	5.7%	84%
[†] 2019	4	10.0	3.0%	89%
[†] 2015	4	10.1	1.4%	95%
2011	4	10.0	5.0%	92%
[2] 2003	4	10.0	6.3%	97%
Bulgaria				
2023	4	10.7	3.7%	94%
2019	4	10.7	3.4%	95%
2015	4	10.8	2.9%	93%
Canada				
[1][3] 2023	4	9.9	14.3%	81%
[1][2] 2019	4	9.9	7.0%	86%
[1][2][†] 2015	4	9.9	6.1%	80%
Chile				
[2][†] 2023	4	10.2	5.6%	89%
2019	4	10.1	3.8%	95%
2015	4	10.2	3.7%	88%
2011	4	10.1	3.7%	95%
Chinese Taipei				
2023	4	10.3	2.6%	95%
2019	4	10.2	2.0%	98%
2015	4	10.2	2.4%	99%
2011	4	10.2	1.4%	99%
2007	4	10.2	2.8%	100%
2003	4	10.2	3.1%	99%
Cyprus				
[2] 2023	4	9.9	7.0%	95%
2019	4	9.8	4.6%	97%
2015	4	9.8	4.6%	98%
2003	4	9.9	2.9%	97%
1995	4	9.8	3.2%	83%
Czech Republic				
[2] 2023	4	10.4	7.3%	96%
2019	4	10.4	4.7%	96%
2015	4	10.4	4.2%	95%
2011	4	10.4	5.1%	94%
2007	4	10.3	4.9%	92%
1995	4	10.4	4.1%	86%
Denmark				
[†] 2023	4	10.9	5.2%	91%
[†] 2019	4	10.9	3.1%	83%
[2][†] 2015	4	10.9	7.5%	86%
[2] 2011	4	11.0	6.3%	87%
[†] 2007	4	11.0	4.1%	85%

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See Appendix B.2 for population coverage notes 1, 2, and 3. See Appendix B.5 for sampling guidelines and sampling participation notes †, ‡, and ≡.

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Exhibit B.6: Trends in Student Populations

(Continued)

Country	Years of Formal Schooling*	Average Age at Time of Testing	Overall Exclusion Rates	Overall Participation Rates (After Replacement)
England				
[2] 2023	5	10.3	5.5%	81%
[2] 2019	5	10.2	5.8%	89%
2015	5	10.1	2.3%	96%
2011	5	10.2	2.0%	78%
2007	5	10.2	2.1%	84%
† 2003	5	10.3	1.9%	76%
[3] † 1995	5	10.0	12.1%	83%
Finland				
2023	4	10.8	2.4%	95%
2019	4	10.8	3.3%	97%
2015	4	10.8	2.0%	97%
2011	4	10.8	3.1%	96%
France				
[2] 2023	4	9.9	5.8%	97%
2019	4	9.9	4.4%	98%
2015	4	9.9	5.3%	97%
Georgia				
[1] 2023	4	10.2	3.5%	98%
[1] 2019	4	10.1	4.7%	96%
[1] 2015	4	9.7	4.9%	98%
[1] 2011	4	10.0	4.9%	96%
[1] 2007	4	10.1	4.8%	98%
Germany				
2023	4	10.4	4.4%	95%
2019	4	10.4	3.9%	97%
2015	4	10.4	2.7%	95%
2011	4	10.4	1.9%	95%
2007	4	10.4	1.3%	96%
Hong Kong SAR				
† 2023	4	10.1	1.6%	80%
† 2019	4	10.1	3.5%	79%
† 2015	4	10.1	2.2%	76%
[2] 2011	4	10.1	8.5%	82%
2007	4	10.2	5.4%	81%
† 2003	4	10.2	3.8%	83%
1995	4	10.1	2.7%	83%
Hungary				
2023	4	10.6	5.1%	96%
2019	4	10.5	4.1%	96%
2015	4	10.7	4.8%	96%
2011	4	10.7	4.2%	96%
2007	4	10.7	4.4%	96%
[2] 2003	4	10.5	8.1%	93%
1995	4	10.4	3.8%	92%
Iran, Islamic Rep. of				
2023	4	10.2	0.7%	97%
2019	4	10.2	4.2%	99%
2015	4	10.2	4.0%	99%
2011	4	10.2	4.5%	99%
2007	4	10.2	3.0%	99%
[2] 2003	4	10.4	5.7%	98%
1995	4	10.5	1.3%	97%
Ireland				
2023	4	10.5	3.7%	93%
2019	4	10.4	3.0%	91%
2015	4	10.4	2.7%	96%
2011	4	10.3	2.5%	95%
[2] 1995	4	10.3	6.9%	90%
Italy				
[2] 2023	4	9.8	7.0%	96%
2019	4	9.6	4.9%	97%
[2] 2015	4	9.7	6.2%	94%
2011	4	9.7	3.7%	95%
2007	4	9.8	5.3%	97%
2003	4	9.8	4.2%	97%
Japan				
2023	4	10.5	2.5%	90%
2019	4	10.4	2.2%	95%
2015	4	10.5	2.9%	97%
2011	4	10.5	3.2%	96%
2007	4	10.5	1.1%	95%
2003	4	10.4	0.8%	97%
1995	4	10.4	3.0%	92%

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Exhibit B.6: Trends in Student Populations

(Continued)

Country	Years of Formal Schooling*	Average Age at Time of Testing	Overall Exclusion Rates	Overall Participation Rates (After Replacement)
Jordan				
2023	4	9.9	0.3%	97%
2015	4	9.8	1.2%	96%
Kazakhstan				
[2] 2023	4	10.2	5.8%	98%
[2] 2019	4	10.4	5.8%	99%
[2] 2011	4	10.4	6.3%	99%
Korea, Rep. of				
2023	4	10.4	3.4%	96%
2019	4	10.5	2.3%	97%
2015	4	10.5	2.5%	97%
2011	4	10.4	2.5%	98%
[2] 1995	4	10.3	6.6%	95%
Kosovo				
[2] 2023	4	10.0	8.1%	95%
[2] 2019	4	9.9	8.6%	97%
Kuwait				
2023	4	9.8	0.7%	89%
2019	4	9.7	1.7%	94%
2015	4	9.7	3.0%	90%
Latvia				
2023	4	10.9	4.7%	91%
[2] 2019	4	10.8	6.9%	93%
2003	4	11.1	4.4%	88%
Lithuania				
[2] 2023	4	10.8	8.6%	92%
[2] 2019	4	10.7	6.7%	94%
[2] 2015	4	10.7	6.1%	94%
[1,2] 2011	4	10.7	5.6%	94%
[1] 2007	4	10.8	5.4%	94%
[1] 2003	4	10.9	4.6%	87%
Montenegro				
[2] 2023	4	9.9	8.7%	95%
2019	4	9.8	4.6%	98%
Morocco				
2023	4	10.1	1.6%	98%
2019	4	10.1	1.8%	99%
2015	4	10.3	1.5%	99%
2011	4	10.5	2.0%	96%
Netherlands				
† 2023	4	10.0	4.4%	77%
≡ 2019	4	10.1	3.5%	73%
† 2015	4	10.0	3.2%	83%
† 2011	4	10.2	4.0%	79%
‡ 2007	4	10.2	4.8%	91%
† 2003	4	10.2	5.2%	84%
≡ 1995	4	10.3	4.4%	59%
New Zealand				
[2] † 2023	4.5 - 5.5	10.0	8.5%	78%
[2] 2019	4.5 - 5.5	10.0	6.9%	93%
2015	4.5 - 5.5	10.0	4.8%	90%
2011	4.5 - 5.5	9.9	4.9%	90%
2007	4.5 - 5.5	10.0	5.4%	96%
2003	4.5 - 5.5	10.0	4.0%	93%
1995	4.5 - 5.5	10.0	1.3%	95%
North Macedonia				
2023	4	9.9	3.5%	92%
2019	4	9.8	3.8%	95%
Norway (5)				
[2] 2023	5	10.8	6.1%	88%
† 2019	5	10.7	4.7%	84%
2015	5	10.7	4.7%	89%
Oman				
2023	4	9.8	2.4%	97%
2019	4	9.7	2.2%	98%
2015	4	9.6	0.8%	97%
2011	4	9.9	1.5%	96%
Poland				
[2] 2023	4	10.9	6.5%	89%
2019	4	10.3	3.1%	93%
2015	4	10.7	4.0%	92%

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Exhibit B.6: Trends in Student Populations

(Continued)

Country	Years of Formal Schooling*	Average Age at Time of Testing	Overall Exclusion Rates	Overall Participation Rates (After Replacement)
Portugal				
2023	4	10.1	4.3%	96%
[2] 2019	4	10.0	7.8%	94%
[2] 2015	4	9.9	6.5%	92%
2011	4	10.0	2.5%	92%
[2] 1995	4	10.4	7.3%	92%
Qatar				
2023	4	10.0	3.3%	96%
2019	4	9.9	2.2%	97%
2015	4	10.1	3.8%	99%
[2] 2011	4	10.0	6.2%	99%
Romania				
[2 ≡] 2023	4	11.1	6.5%	60%
2011	4	10.9	4.0%	97%
Saudi Arabia				
[3] 2023	4	9.9	11.2%	98%
[2] 2019	4	9.9	10.5%	98%
2015	4	10.0	1.9%	93%
2011	4	10.0	1.6%	99%
Serbia				
[2] 2023	4	10.7	10.2%	93%
[2] 2019	4	10.6	8.2%	97%
[3] 2015	4	10.7	11.3%	96%
[2] 2011	4	10.8	9.4%	97%
Singapore				
[3] 2023	4	10.4	13.5%	95%
[3] 2019	4	10.4	12.8%	97%
[2] 2015	4	10.4	10.1%	96%
[2] 2011	4	10.4	6.3%	96%
2007	4	10.4	1.5%	96%
2003	4	10.3	0.0%	98%
1995	4	10.3	0.0%	98%
Slovak Republic				
2023	4	10.5	2.5%	96%
[2] 2019	4	10.4	5.5%	96%
2015	4	10.4	4.2%	97%
2011	4	10.4	4.6%	96%
2007	4	10.4	3.3%	97%
Slovenia				
2023	4	10.0	5.1%	91%
2015	4	9.8	4.5%	93%
2011	4	9.9	2.6%	94%
2007	4	9.8	2.1%	93%
2003	3 or 4	9.8	1.3%	91%
1995	3	9.9	1.9%	76%
South Africa (5)				
2023	5	11.3	0.2%	83%
2019	5	11.5	1.1%	97%
2015	5	11.5	2.2%	98%
Spain				
[2] 2023	4	10.0	6.0%	92%
2019	4	9.9	5.4%	95%
[2] 2015	4	9.9	5.6%	95%
2011	4	9.8	5.3%	97%
Sweden				
[2] 2023	4	10.8	6.2%	95%
2019	4	10.8	5.4%	95%
[2] 2015	4	10.8	5.7%	95%
2011	4	10.7	4.1%	91%
2007	4	10.8	3.1%	97%
United Arab Emirates				
2023	4	10.0	2.8%	94%
2019	4	9.7	3.2%	96%
2015	4	9.8	4.7%	97%
2011	4	9.8	3.3%	97%

* Represents years of schooling counting from the first year of ISCED Level 1.
Trend data are included only for assessment years reported in TIMSS 2023.
See Appendix B.2 for population coverage notes 1, 2, and 3. See Appendix B.5 for sampling guidelines and sampling participation notes †, ‡, and ≡.

Exhibit B.6: Trends in Student Populations

(Continued)

Country	Years of Formal Schooling*	Average Age at Time of Testing	Overall Exclusion Rates	Overall Participation Rates (After Replacement)
United States				
[2†] 2023	4	10.2	5.5%	76%
[2†] 2019	4	10.2	7.2%	84%
[2†] 2015	4	10.2	6.8%	81%
[2] 2011	4	10.2	7.0%	80%
[2†] 2007	4	10.3	9.2%	84%
[†] 2003	4	10.2	5.1%	78%
1995	4	10.2	4.7%	80%
Benchmarking Participants				
Ontario, Canada				
[3] 2023	4	9.8	13.2%	90%
[2] 2019	4	9.8	7.0%	90%
2015	4	9.8	3.4%	90%
2011	4	9.8	5.3%	94%
[2] 2007	4	9.8	6.3%	92%
2003	4	9.8	4.8%	90%
[2] 1995	4	9.8	-	92%
Quebec, Canada				
[2] 2023	4	10.1	8.8%	81%
2019	4	10.1	4.4%	83%
[≡] 2015	4	10.1	5.4%	59%
2011	4	10.1	3.7%	91%
[2] 2007	4	10.1	6.4%	84%
2003	4	10.1	3.6%	91%
1995	4	10.3	-	81%
Abu Dhabi, UAE				
2023	4	9.9	3.5%	93%
2019	4	9.7	3.6%	95%
[2] 2015	4	9.8	5.8%	97%
2011	4	9.7	2.7%	97%
Dubai, UAE				
2023	4	10.1	3.6%	95%
[2] 2019	4	9.9	5.6%	97%
2015	4	9.8	5.3%	97%
2011	4	9.8	5.1%	96%
[‡] 2007	4	10.0	5.4%	67%

* Represents years of schooling counting from the first year of ISCED Level 1.
Trend data are included only for assessment years reported in TIMSS 2023.
See Appendix B.2 for population coverage notes 1, 2, and 3. See Appendix B.5 for sampling guidelines and sampling participation notes †, ‡, and ≡.

Ontario and Quebec in 1995 participated as part of Canada. A dash (-) indicates comparable data not available.

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