

Appendix C.9: Trends in Student Populations

| Country | Years of Formal Schooling* | | | | | Average Age at Time of Testing | | | | |
|-----------------------|----------------------------|-----------|-----------|-----------|-----------|--------------------------------|------|------|------|------|
| | 2015 | 2011 | 2007 | 2003 | 1995 | 2015 | 2011 | 2007 | 2003 | 1995 |
| Australia | 4 | 4 | 4 | 4 | 4 | 10.0 | 10.0 | 9.9 | 9.9 | 9.9 |
| Bahrain | 4 | 4 | | | | 9.9 | 10.4 | | | |
| Belgium (Flemish) | 4 | 4 | | 4 | | 10.1 | 10.0 | | 10.0 | |
| Chile | 4 | 4 | | | | 10.2 | 10.1 | | | |
| Chinese Taipei | 4 | 4 | 4 | 4 | | 10.2 | 10.2 | 10.2 | 10.2 | |
| Croatia | 4 | 4 | | | | 10.6 | 10.7 | | | |
| Cyprus | 4 | | | 4 | 4 | 9.8 | | | 9.9 | 9.8 |
| Czech Republic | 4 | 4 | 4 | | 4 | 10.4 | 10.4 | 10.3 | | 10.4 |
| Denmark | 4 | 4 | 4 | | | 10.9 | 11.0 | 11.0 | | |
| England | 5 | 5 | 5 | 5 | 5 | 10.1 | 10.2 | 10.2 | 10.3 | 10.0 |
| Finland | 4 | 4 | | | | 10.8 | 10.8 | | | |
| Georgia | 4 | 4 | 4 | | | 9.7 | 10.0 | 10.1 | | |
| Germany | 4 | 4 | 4 | | | 10.4 | 10.4 | 10.4 | | |
| Hong Kong SAR | 4 | 4 | 4 | 4 | 4 | 10.1 | 10.1 | 10.2 | 10.2 | 10.1 |
| Hungary | 4 | 4 | 4 | 4 | 4 | 10.7 | 10.7 | 10.7 | 10.5 | 10.4 |
| Iran, Islamic Rep. of | 4 | 4 | 4 | 4 | 4 | 10.2 | 10.2 | 10.2 | 10.4 | 10.5 |
| Ireland | 4 | 4 | | | 4 | 10.4 | 10.3 | | | 10.3 |
| Italy | 4 | 4 | 4 | 4 | | 9.7 | 9.7 | 9.8 | 9.8 | |
| Japan | 4 | 4 | 4 | 4 | 4 | 10.5 | 10.5 | 10.5 | 10.4 | 10.4 |
| Kazakhstan | 4 | 4 | | | | 10.3 | 10.4 | | | |
| Korea, Rep. of | 4 | 4 | | | 4 | 10.5 | 10.4 | | | 10.3 |
| Kuwait | 4 | 4 | | | | 9.7 | 9.7 | | | |
| Lithuania | 4 | 4 | 4 | 4 | | 10.7 | 10.7 | 10.8 | 10.9 | |
| Morocco | 4 | 4 | | | | 10.3 | 10.5 | | | |
| Netherlands | 4 | 4 | 4 | 4 | 4 | 10.0 | 10.2 | 10.2 | 10.2 | 10.3 |
| New Zealand | 4.5 - 5.5 | 4.5 - 5.5 | 4.5 - 5.5 | 4.5 - 5.5 | 4.5 - 5.5 | 10.0 | 9.9 | 10.0 | 10.0 | 10.0 |
| Northern Ireland | 4 | 4 | | | | 10.4 | 10.4 | | | |
| Oman | 4 | 4 | | | | 9.6 | 9.9 | | | |
| Portugal | 4 | 4 | | | 4 | 9.9 | 10.0 | | | 10.4 |
| Qatar | 4 | 4 | | | | 10.1 | 10.0 | | | |
| Russian Federation | 4 | 4 | 4 | 3 or 4 | | 10.8 | 10.8 | 10.8 | 10.6 | |
| Saudi Arabia | 4 | 4 | | | | 10.0 | 10.0 | | | |
| Serbia | 4 | 4 | | | | 10.7 | 10.8 | | | |
| Singapore | 4 | 4 | 4 | 4 | 4 | 10.4 | 10.4 | 10.4 | 10.3 | 10.3 |
| Slovak Republic | 4 | 4 | 4 | | | 10.4 | 10.4 | 10.4 | | |
| Slovenia | 4 | 4 | 4 | 3 or 4 | 3 | 9.8 | 9.9 | 9.8 | 9.8 | 9.9 |
| Spain | 4 | 4 | | | | 9.9 | 9.8 | | | |
| Sweden | 4 | 4 | 4 | | | 10.8 | 10.7 | 10.8 | | |
| Turkey | 4 | 4 | | | | 9.9 | 10.1 | | | |
| United Arab Emirates | 4 | 4 | | | | 9.8 | 9.8 | | | |
| United States | 4 | 4 | 4 | 4 | 4 | 10.2 | 10.2 | 10.3 | 10.2 | 10.2 |

SOURCE: IEA's Trends in International Mathematics and Science Study – TIMSS 2015

Benchmarking Participants

| | | | | | | | | | | |
|-----------------|---|---|---|---|---|------|------|------|------|------|
| Ontario, Canada | 4 | 4 | 4 | 4 | 4 | 9.8 | 9.8 | 9.8 | 9.9 | 9.8 |
| Quebec, Canada | 4 | 4 | 4 | 4 | 4 | 10.1 | 10.1 | 10.1 | 10.1 | 10.3 |
| Norway (4) | 4 | 4 | 4 | 3 | 3 | 9.7 | 9.7 | 9.8 | 9.8 | 9.9 |
| Abu Dhabi, UAE | 4 | 4 | | | | 9.8 | 9.7 | | | |
| Dubai, UAE | 4 | 4 | 4 | | | 9.8 | 9.9 | 10.0 | | |
| Florida, US | 4 | 4 | | | | 10.4 | 10.4 | | | |

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

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

Dubai (UAE) in 2007 tested the same cohort of students as other countries, but later in the assessment year.

Trend results for Kuwait do not include private schools. Trend results for Lithuania do not include students taught in Polish or in Russian.

An empty cell indicates a country did not participate in that year's assessment. A dash (-) indicates comparable data not available.

Appendix C.9: Trends in Student Populations (Continued)

| Country | Overall Exclusion Rates | | | | | Overall Participation Rates (After Replacement) | | | | |
|-----------------------|-------------------------|------|------|------|-------|---|------|------|------|------|
| | 2015 | 2011 | 2007 | 2003 | 1995 | 2015 | 2011 | 2007 | 2003 | 1995 |
| Australia | 4.2% | 4.4% | 4.0% | 2.7% | 2.0% | 94% | 93% | 95% | 85% | 66% |
| Bahrain | 5.6% | 1.1% | | | | 99% | 90% | | | |
| Belgium (Flemish) | 1.4% | 5.0% | | 6.3% | | 95% | 92% | | 97% | |
| Chile | 3.7% | 3.7% | | | | 88% | 95% | | | |
| Chinese Taipei | 2.4% | 1.4% | 2.8% | 3.1% | | 99% | 99% | 100% | 99% | |
| Croatia | 4.4% | 7.9% | | | | 94% | 95% | | | |
| Cyprus | 4.6% | | | 2.9% | 3.0% | 98% | | | 97% | 83% |
| Czech Republic | 4.2% | 5.1% | 4.9% | | 4.0% | 95% | 94% | 92% | | 86% |
| Denmark | 7.5% | 6.3% | 4.1% | | | 86% | 87% | 85% | | |
| England | 2.3% | 2.0% | 2.1% | 1.9% | 12.0% | 96% | 78% | 84% | 76% | 83% |
| Finland | 2.0% | 3.1% | | | | 97% | 96% | | | |
| Georgia | 4.9% | 4.9% | 4.8% | | | 98% | 96% | 98% | | |
| Germany | 2.7% | 1.9% | 1.3% | | | 95% | 95% | 96% | | |
| Hong Kong SAR | 2.2% | 8.6% | 5.4% | 3.8% | 3.0% | 76% | 82% | 81% | 83% | 83% |
| Hungary | 4.8% | 4.2% | 4.4% | 8.1% | 4.0% | 96% | 96% | 96% | 93% | 92% |
| Iran, Islamic Rep. of | 4.0% | 4.5% | 3.0% | 5.7% | 1.0% | 99% | 99% | 99% | 98% | 97% |
| Ireland | 2.7% | 2.5% | | | 7.0% | 96% | 95% | | | 90% |
| Italy | 6.2% | 3.7% | 5.3% | 4.2% | | 94% | 95% | 97% | 97% | |
| Japan | 2.9% | 3.2% | 1.1% | 0.8% | 3.0% | 97% | 96% | 95% | 97% | 92% |
| Kazakhstan | 3.9% | 6.3% | | | | 97% | 99% | | | |
| Korea, Rep. of | 2.5% | 2.5% | | | 7.0% | 97% | 98% | | | 95% |
| Kuwait | 3.0% | 0.3% | | | | 90% | 91% | | | |
| Lithuania | 6.1% | 5.6% | 5.4% | 4.6% | | 94% | 94% | 94% | 87% | |
| Morocco | 1.5% | 2.0% | | | | 99% | 96% | | | |
| Netherlands | 3.2% | 4.0% | 4.8% | 5.2% | 4.0% | 83% | 79% | 91% | 84% | 59% |
| New Zealand | 4.8% | 4.9% | 5.4% | 4.0% | 1.0% | 90% | 90% | 96% | 93% | 95% |
| Northern Ireland | 2.7% | 3.5% | | | | 71% | 79% | | | |
| Oman | 0.8% | 1.5% | | | | 97% | 96% | | | |
| Portugal | 6.5% | 2.5% | | | 7.0% | 92% | 92% | | | 92% |
| Qatar | 3.8% | 6.2% | | | | 99% | 99% | | | |
| Russian Federation | 4.0% | 5.3% | 3.6% | 6.8% | | 98% | 98% | 98% | 97% | |
| Saudi Arabia | 1.9% | 1.6% | | | | 93% | 99% | | | |
| Serbia | 11.3% | 9.4% | | | | 96% | 97% | | | |
| Singapore | 10.1% | 6.3% | 1.5% | 0.0% | 0.0% | 96% | 96% | 96% | 98% | 98% |
| Slovak Republic | 4.2% | 4.6% | 3.3% | | | 97% | 96% | 97% | | |
| Slovenia | 4.5% | 2.6% | 2.1% | 1.3% | 2.0% | 93% | 94% | 93% | 91% | 76% |
| Spain | 5.6% | 5.3% | | | | 95% | 97% | | | |
| Sweden | 5.7% | 4.1% | 3.1% | | | 95% | 91% | 97% | | |
| Turkey | 3.6% | 2.5% | | | | 98% | 98% | | | |
| United Arab Emirates | 4.7% | 3.3% | | | | 97% | 97% | | | |
| United States | 6.8% | 7.0% | 9.2% | 5.1% | 5.0% | 81% | 80% | 84% | 78% | 80% |

SOURCE: IEA's Trends in International Mathematics and Science Study – TIMSS 2015

Benchmarking Participants

| | | | | | | | | | | |
|-----------------|------|-------|------|------|------|-----|-----|-----|-----|-----|
| Ontario, Canada | 3.4% | 5.3% | 6.3% | 4.8% | - | 90% | 94% | 92% | 90% | 92% |
| Quebec, Canada | 5.4% | 3.7% | 6.4% | 3.6% | - | 59% | 91% | 84% | 91% | 81% |
| Norway (4) | 5.0% | 4.3% | 5.1% | 4.4% | 3.0% | 89% | 70% | 92% | 88% | 91% |
| Abu Dhabi, UAE | 5.8% | 2.7% | | | | 97% | 97% | | | |
| Dubai, UAE | 5.3% | 5.1% | 5.4% | | | 97% | 96% | 67% | | |
| Florida, US | 4.7% | 12.1% | | | | 95% | 91% | | | |