

Appendix E.2: Average Percent Correct in the Science Content and Cognitive Domains

| Country | Overall Science | Science Content Domains | | | | Science Cognitive Domains | | |
|---------------------------|-----------------|-------------------------|-----------------|-----------------|-----------------|---------------------------|-----------------|-----------------|
| | | Biology | Chemistry | Physics | Earth Science | Knowing | Applying | Reasoning |
| Australia | 47 (0.5) | 50 (0.6) | 40 (0.6) | 44 (0.5) | 51 (0.5) | 51 (0.5) | 48 (0.6) | 39 (0.6) |
| Bahrain | 39 (0.3) | 40 (0.4) | 37 (0.5) | 38 (0.3) | 41 (0.5) | 44 (0.4) | 39 (0.4) | 32 (0.4) |
| Botswana (9) | 29 (0.3) | 31 (0.4) | 26 (0.4) | 28 (0.3) | 27 (0.3) | 34 (0.3) | 30 (0.3) | 19 (0.4) |
| Canada | 49 (0.4) | 52 (0.4) | 43 (0.5) | 47 (0.5) | 52 (0.5) | 52 (0.5) | 50 (0.4) | 44 (0.5) |
| Chile | 36 (0.5) | 38 (0.5) | 31 (0.5) | 33 (0.5) | 39 (0.6) | 43 (0.5) | 36 (0.5) | 27 (0.6) |
| Chinese Taipei | 59 (0.4) | 59 (0.4) | 60 (0.5) | 56 (0.5) | 62 (0.4) | 65 (0.4) | 59 (0.4) | 51 (0.5) |
| Egypt | 27 (0.5) | 25 (0.5) | 27 (0.6) | 29 (0.5) | 27 (0.5) | 33 (0.6) | 26 (0.5) | 17 (0.4) |
| England | 51 (0.8) | 53 (0.9) | 48 (0.9) | 50 (0.8) | 53 (0.8) | 53 (0.7) | 53 (0.8) | 47 (1.0) |
| Georgia | 35 (0.5) | 36 (0.5) | 36 (0.6) | 33 (0.5) | 33 (0.6) | 42 (0.5) | 34 (0.5) | 25 (0.6) |
| Hong Kong SAR | 53 (0.8) | 54 (0.8) | 49 (0.9) | 52 (0.9) | 57 (0.8) | 57 (0.7) | 53 (0.9) | 48 (1.0) |
| Hungary | 50 (0.7) | 50 (0.6) | 50 (0.8) | 51 (0.7) | 51 (0.7) | 54 (0.6) | 51 (0.7) | 43 (0.8) |
| Iran, Islamic Rep. of | 37 (0.7) | 36 (0.7) | 35 (0.9) | 40 (0.8) | 36 (0.7) | 43 (0.7) | 38 (0.7) | 28 (0.8) |
| Ireland | 50 (0.5) | 52 (0.6) | 46 (0.7) | 48 (0.6) | 55 (0.6) | 53 (0.5) | 52 (0.6) | 44 (0.7) |
| Israel | 46 (0.7) | 47 (0.8) | 47 (0.9) | 47 (0.7) | 46 (0.7) | 50 (0.7) | 47 (0.7) | 41 (0.9) |
| Italy | 44 (0.4) | 45 (0.4) | 39 (0.5) | 43 (0.5) | 49 (0.5) | 49 (0.4) | 45 (0.4) | 35 (0.5) |
| Japan | 59 (0.4) | 60 (0.4) | 56 (0.6) | 58 (0.4) | 61 (0.4) | 61 (0.4) | 61 (0.4) | 53 (0.5) |
| Jordan | 33 (0.4) | 33 (0.4) | 32 (0.6) | 33 (0.5) | 34 (0.5) | 39 (0.4) | 33 (0.5) | 24 (0.5) |
| Kazakhstan | 51 (1.0) | 50 (1.0) | 55 (1.2) | 53 (1.1) | 48 (1.0) | 55 (1.0) | 52 (1.0) | 43 (1.1) |
| Korea, Rep. of | 56 (0.5) | 56 (0.4) | 52 (0.6) | 57 (0.6) | 57 (0.5) | 59 (0.5) | 56 (0.5) | 51 (0.5) |
| Kuwait | 31 (0.8) | 31 (0.8) | 30 (0.8) | 30 (0.8) | 33 (0.8) | 37 (0.7) | 31 (0.8) | 22 (0.9) |
| Lebanon | 29 (0.7) | 26 (0.7) | 33 (0.9) | 31 (0.8) | 27 (0.6) | 35 (0.7) | 29 (0.8) | 19 (0.7) |
| Lithuania | 48 (0.6) | 50 (0.6) | 45 (0.7) | 47 (0.6) | 49 (0.7) | 51 (0.5) | 48 (0.6) | 43 (0.7) |
| Malaysia | 40 (0.7) | 40 (0.7) | 37 (0.7) | 42 (0.7) | 41 (0.7) | 45 (0.6) | 41 (0.7) | 30 (0.7) |
| Malta | 42 (0.3) | 42 (0.3) | 40 (0.4) | 42 (0.4) | 44 (0.4) | 45 (0.3) | 44 (0.3) | 34 (0.4) |
| Morocco | 27 (0.3) | 26 (0.3) | 26 (0.4) | 27 (0.4) | 29 (0.3) | 33 (0.3) | 27 (0.3) | 18 (0.3) |
| New Zealand | 47 (0.6) | 49 (0.6) | 42 (0.7) | 45 (0.6) | 50 (0.8) | 49 (0.6) | 48 (0.7) | 41 (0.7) |
| Norway (9) | 46 (0.5) | 45 (0.6) | 42 (0.6) | 46 (0.6) | 50 (0.7) | 49 (0.5) | 46 (0.6) | 41 (0.7) |
| Oman | 37 (0.4) | 38 (0.4) | 34 (0.5) | 35 (0.4) | 39 (0.4) | 43 (0.4) | 37 (0.4) | 28 (0.4) |
| Qatar | 38 (0.5) | 39 (0.5) | 35 (0.6) | 38 (0.5) | 40 (0.5) | 43 (0.4) | 39 (0.5) | 30 (0.5) |
| Russian Federation | 54 (0.9) | 54 (1.0) | 55 (1.1) | 54 (0.9) | 52 (0.9) | 60 (1.0) | 53 (0.9) | 46 (0.9) |
| Saudi Arabia | 28 (0.6) | 29 (0.7) | 24 (0.7) | 26 (0.7) | 31 (0.6) | 34 (0.6) | 27 (0.7) | 21 (0.7) |
| Singapore | 64 (0.7) | 68 (0.7) | 63 (0.8) | 65 (0.7) | 59 (0.7) | 67 (0.6) | 66 (0.7) | 59 (0.8) |
| Slovenia | 55 (0.5) | 56 (0.5) | 54 (0.6) | 53 (0.5) | 59 (0.6) | 60 (0.5) | 55 (0.5) | 49 (0.6) |
| South Africa (9) | 24 (0.7) | 25 (0.8) | 22 (0.7) | 25 (0.6) | 25 (0.8) | 29 (0.7) | 25 (0.8) | 15 (0.7) |
| Sweden | 49 (0.7) | 49 (0.7) | 45 (0.7) | 48 (0.7) | 52 (0.7) | 52 (0.6) | 49 (0.7) | 43 (0.9) |
| Thailand | 37 (0.8) | 39 (0.8) | 33 (0.8) | 33 (0.8) | 39 (0.9) | 44 (0.8) | 37 (0.9) | 26 (0.8) |
| Turkey | 43 (0.8) | 44 (0.8) | 43 (0.9) | 45 (0.8) | 42 (0.8) | 48 (0.8) | 43 (0.8) | 37 (0.9) |
| United Arab Emirates | 41 (0.4) | 42 (0.4) | 40 (0.5) | 40 (0.4) | 43 (0.4) | 47 (0.4) | 42 (0.4) | 33 (0.4) |
| United States | 50 (0.6) | 53 (0.6) | 46 (0.7) | 46 (0.6) | 53 (0.6) | 54 (0.6) | 52 (0.6) | 43 (0.7) |
| International Avg. | 43 (0.1) | 44 (0.1) | 41 (0.1) | 42 (0.1) | 45 (0.1) | 48 (0.1) | 44 (0.1) | 36 (0.1) |

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

Benchmarking Participants

| | | | | | | | | |
|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Buenos Aires, Argentina | 27 (0.5) | 28 (0.6) | 20 (0.5) | 25 (0.6) | 31 (0.8) | 34 (0.6) | 26 (0.6) | 17 (0.6) |
| Ontario, Canada | 49 (0.5) | 53 (0.5) | 41 (0.6) | 47 (0.6) | 51 (0.6) | 51 (0.5) | 50 (0.5) | 44 (0.6) |
| Quebec, Canada | 50 (0.9) | 50 (0.9) | 48 (1.1) | 47 (1.0) | 55 (1.0) | 54 (0.9) | 50 (0.9) | 44 (1.0) |
| Norway (8) | 42 (0.5) | 42 (0.5) | 37 (0.6) | 40 (0.5) | 47 (0.6) | 45 (0.5) | 43 (0.5) | 36 (0.6) |
| Abu Dhabi, UAE | 38 (0.9) | 38 (1.1) | 36 (1.1) | 36 (0.8) | 40 (1.0) | 43 (0.9) | 38 (1.0) | 29 (1.0) |
| Dubai, UAE | 50 (0.4) | 51 (0.4) | 49 (0.5) | 49 (0.4) | 51 (0.4) | 55 (0.4) | 50 (0.5) | 43 (0.5) |
| Florida, US | 46 (1.2) | 49 (1.1) | 43 (1.3) | 43 (1.2) | 48 (1.4) | 52 (1.2) | 47 (1.1) | 38 (1.4) |

() Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.