

Appendix F.4: Average Percent Correct in the Science Content and Cognitive Domains

eTIMSS		Science Content Domains				Science Cognitive Domains		
Country	Overall Science	Biology	Chemistry	Physics	Earth Science	Knowing	Applying	Reasoning
Chile	36 (0.5)	40 (0.6)	30 (0.5)	33 (0.5)	38 (0.6)	39 (0.5)	37 (0.5)	31 (0.6)
Chinese Taipei	59 (0.4)	62 (0.4)	60 (0.5)	54 (0.5)	60 (0.5)	67 (0.4)	57 (0.5)	52 (0.5)
England	47 (0.9)	49 (0.9)	43 (1.0)	45 (1.0)	48 (1.0)	50 (1.0)	47 (0.9)	42 (1.1)
Finland	52 (0.6)	53 (0.7)	50 (0.7)	51 (0.7)	56 (0.6)	55 (0.6)	51 (0.6)	50 (0.7)
France	40 (0.5)	43 (0.5)	32 (0.6)	40 (0.5)	45 (0.6)	42 (0.5)	40 (0.5)	39 (0.6)
Georgia	33 (0.6)	35 (0.7)	32 (0.7)	32 (0.6)	32 (0.6)	39 (0.6)	32 (0.6)	27 (0.7)
Hong Kong SAR	45 (1.0)	45 (1.1)	39 (1.0)	46 (1.0)	48 (0.9)	47 (1.1)	45 (0.9)	41 (1.0)
Hungary	49 (0.5)	52 (0.6)	46 (0.6)	48 (0.6)	51 (0.6)	54 (0.5)	49 (0.5)	44 (0.6)
Israel	46 (0.8)	48 (0.8)	45 (0.9)	47 (0.9)	44 (0.9)	50 (0.9)	46 (0.9)	43 (0.9)
Italy	43 (0.5)	47 (0.6)	37 (0.6)	39 (0.6)	47 (0.7)	47 (0.5)	43 (0.6)	37 (0.6)
Korea, Rep. of	55 (0.5)	57 (0.5)	49 (0.5)	56 (0.5)	56 (0.5)	57 (0.5)	55 (0.5)	53 (0.5)
Lithuania	50 (0.6)	52 (0.6)	45 (0.7)	48 (0.7)	51 (0.7)	52 (0.6)	49 (0.6)	48 (0.8)
Malaysia	37 (0.5)	39 (0.6)	30 (0.5)	38 (0.6)	38 (0.6)	38 (0.5)	39 (0.5)	32 (0.5)
Norway (9)	43 (0.5)	43 (0.5)	39 (0.6)	41 (0.6)	48 (0.6)	46 (0.5)	43 (0.6)	38 (0.6)
Portugal	47 (0.6)	51 (0.7)	42 (0.7)	41 (0.6)	51 (0.6)	50 (0.6)	46 (0.6)	42 (0.7)
Qatar	40 (0.8)	42 (0.9)	37 (0.8)	38 (0.8)	40 (0.9)	45 (0.8)	39 (0.8)	33 (0.9)
Russian Federation	52 (0.9)	54 (1.0)	49 (0.9)	50 (1.0)	51 (0.9)	55 (0.9)	52 (0.9)	47 (0.8)
Singapore	66 (0.8)	71 (0.8)	64 (1.0)	67 (0.9)	56 (0.7)	70 (0.8)	66 (0.8)	61 (0.9)
Sweden	48 (0.6)	50 (0.7)	43 (0.7)	47 (0.7)	50 (0.7)	51 (0.6)	48 (0.6)	44 (0.7)
Turkey	47 (0.7)	48 (0.7)	45 (0.9)	46 (0.8)	46 (0.7)	49 (0.8)	46 (0.7)	44 (0.8)
United Arab Emirates	41 (0.4)	43 (0.4)	39 (0.4)	39 (0.4)	41 (0.3)	46 (0.4)	40 (0.4)	35 (0.3)
United States	48 (0.9)	52 (0.9)	42 (0.8)	46 (0.9)	51 (0.9)	50 (0.9)	49 (0.9)	46 (0.9)
International Average	47 (0.1)	49 (0.2)	43 (0.2)	45 (0.2)	48 (0.2)	50 (0.1)	46 (0.1)	42 (0.2)
Benchmarking Participants								
Ontario, Canada	47 (0.6)	52 (0.6)	38 (0.7)	46 (0.7)	48 (0.6)	47 (0.5)	48 (0.6)	46 (0.7)
Quebec, Canada	50 (0.8)	51 (0.8)	48 (0.8)	46 (0.8)	55 (0.8)	51 (0.7)	51 (0.8)	48 (1.0)
Moscow City, Russian Fed.	57 (0.6)	59 (0.7)	51 (0.6)	57 (0.7)	57 (0.7)	60 (0.6)	56 (0.7)	53 (0.8)
Abu Dhabi, UAE	34 (0.5)	35 (0.6)	31 (0.5)	32 (0.5)	35 (0.5)	38 (0.5)	33 (0.5)	28 (0.5)
Dubai, UAE	54 (0.4)	57 (0.3)	52 (0.4)	51 (0.5)	53 (0.5)	59 (0.4)	53 (0.4)	49 (0.4)

paperTIMSS		Science Content Domains				Science Cognitive Domains		
Country	Overall Science	Biology	Chemistry	Physics	Earth Science	Knowing	Applying	Reasoning
Australia	50 (0.7)	52 (0.7)	44 (0.7)	49 (0.7)	52 (0.6)	50 (0.6)	51 (0.7)	48 (0.7)
Bahrain	43 (0.3)	46 (0.4)	39 (0.4)	41 (0.4)	42 (0.4)	48 (0.4)	41 (0.3)	38 (0.4)
Cyprus	41 (0.4)	44 (0.5)	37 (0.4)	40 (0.4)	40 (0.5)	44 (0.4)	40 (0.4)	38 (0.4)
Egypt	28 (0.7)	28 (0.7)	28 (0.7)	28 (0.6)	28 (0.6)	33 (0.8)	27 (0.7)	22 (0.6)
Iran, Islamic Rep. of	35 (0.6)	36 (0.6)	34 (0.8)	36 (0.6)	35 (0.6)	40 (0.6)	36 (0.6)	29 (0.6)
Ireland	49 (0.5)	51 (0.6)	44 (0.7)	47 (0.6)	52 (0.5)	50 (0.5)	49 (0.6)	48 (0.6)
Japan	59 (0.5)	62 (0.5)	52 (0.5)	58 (0.6)	59 (0.5)	59 (0.5)	60 (0.5)	56 (0.5)
Jordan	37 (0.7)	40 (0.9)	35 (0.8)	35 (0.7)	34 (0.7)	41 (0.8)	37 (0.8)	31 (0.7)
Kazakhstan	40 (0.6)	41 (0.6)	40 (0.8)	39 (0.7)	37 (0.6)	42 (0.6)	40 (0.6)	36 (0.6)
Kuwait	35 (0.9)	36 (1.0)	35 (1.0)	33 (0.9)	35 (1.0)	40 (1.1)	34 (1.0)	29 (0.9)
Lebanon	26 (0.5)	25 (0.5)	28 (0.6)	27 (0.6)	24 (0.5)	32 (0.5)	26 (0.6)	19 (0.5)
Morocco	26 (0.3)	26 (0.4)	26 (0.4)	28 (0.4)	26 (0.3)	29 (0.4)	27 (0.3)	23 (0.3)
New Zealand	44 (0.7)	46 (0.6)	38 (0.7)	44 (0.8)	47 (0.6)	44 (0.7)	46 (0.7)	42 (0.7)
Oman	38 (0.4)	41 (0.5)	33 (0.4)	35 (0.4)	38 (0.5)	42 (0.5)	37 (0.5)	32 (0.4)
Romania	39 (0.8)	43 (0.9)	36 (0.8)	37 (0.7)	38 (0.7)	43 (0.7)	39 (0.8)	34 (0.9)
Saudi Arabia	32 (0.4)	34 (0.5)	30 (0.4)	29 (0.4)	35 (0.4)	37 (0.5)	31 (0.4)	28 (0.4)
Ψ South Africa (9)	25 (0.3)	25 (0.3)	23 (0.4)	25 (0.3)	26 (0.4)	28 (0.4)	25 (0.3)	19 (0.3)
International Average	38 (0.1)	40 (0.2)	35 (0.2)	37 (0.1)	38 (0.1)	41 (0.1)	38 (0.1)	34 (0.1)
Benchmarking Participants								
Gauteng, RSA (9)	31 (0.6)	32 (0.7)	29 (0.6)	31 (0.6)	32 (0.7)	33 (0.7)	32 (0.6)	26 (0.6)
Western Cape, RSA (9)	34 (0.9)	35 (0.9)	32 (0.9)	34 (0.9)	36 (0.9)	36 (0.8)	35 (0.9)	30 (1.0)

Ψ Reservations about reliability because the percentage of students with achievement too low for estimation exceeds 15% but does not exceed 25%.

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