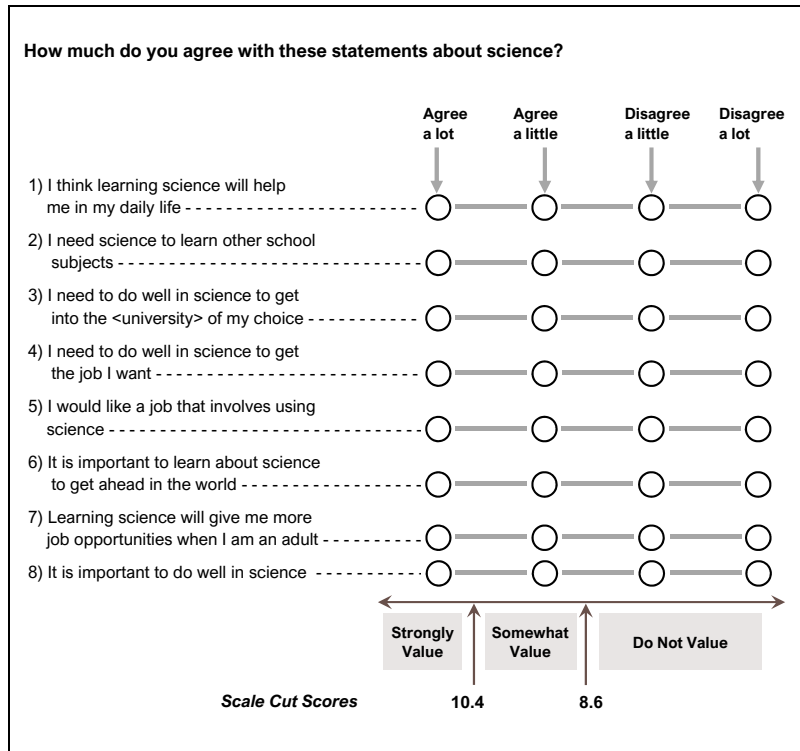


Exhibit 6.3.7: Students Value Science

About the Scale

Students were scored according to their responses to eight statements on the *Students Value Science* scale. Cut scores divide the scale into three categories. Students who **Strongly Value Science** had a score at or above the cut score corresponding to “agreeing a lot” with four of the eight statements and “agreeing a little” with the other four, on average. Students who **Do Not Value Science** had a score at or below the cut score corresponding to “disagreeing a little” with four of the eight statements and “agreeing a little” with the other four, on average. All other students **Somewhat Value Science**.



SOURCE: IEA's Trends in International science and Science Study - TIMSS 2023
Downloaded from <https://timss2023.org/results>

Exhibit 6.3.8: Students Value Science

Country	Strongly Value Science		Somewhat Value Science		Do Not Value Science		Average Scale Score
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	
Australia	24 (0.7)	557 (4.1)	39 (0.7)	531 (4.0)	37 (0.8)	502 (3.4)	9.2 (0.04)
Austria	15 (0.7)	538 (4.9)	37 (0.8)	514 (2.9)	48 (1.0)	509 (3.0)	8.8 (0.03)
Azerbaijan	47 (1.3)	421 (3.2)	33 (1.0)	418 (3.8)	21 (0.9)	417 (4.6)	10.1 (0.05)
Bahrain	53 (1.2)	475 (3.0)	30 (1.0)	453 (3.1)	18 (0.7)	430 (5.1)	10.3 (0.05)
Brazil	42 (0.8)	418 (2.3)	38 (0.8)	433 (3.3)	21 (0.8)	439 (4.7)	10.0 (0.03)
Chile	28 (1.0)	460 (3.5)	43 (0.8)	459 (2.8)	29 (1.1)	462 (3.8)	9.5 (0.04)
Chinese Taipei	21 (0.8)	609 (4.3)	37 (0.7)	584 (3.0)	42 (1.1)	547 (2.7)	9.0 (0.04)
Cote d'Ivoire	58 (1.2)	185 (8.3)	34 (1.0)	179 (7.2)	7 (0.4)	189 (17.6)	10.6 (0.04)
Cyprus	31 (0.8)	495 (4.4)	35 (0.9)	474 (3.8)	34 (0.8)	451 (3.2)	9.4 (0.04)
Czech Republic	14 (0.6)	544 (4.1)	39 (0.7)	532 (2.3)	47 (0.9)	521 (2.2)	8.8 (0.03)
England	28 (0.8)	564 (5.7)	41 (1.0)	543 (4.8)	31 (1.0)	512 (4.8)	9.4 (0.04)
Finland	16 (0.6)	573 (5.4)	40 (0.8)	550 (3.3)	44 (1.0)	517 (3.0)	8.9 (0.03)
France	20 (0.8)	509 (4.5)	40 (1.0)	500 (3.4)	41 (1.0)	477 (3.8)	9.0 (0.04)
Georgia	51 (1.1)	455 (3.3)	34 (0.9)	450 (4.2)	16 (0.8)	446 (4.1)	10.4 (0.04)
Hong Kong SAR	30 (1.0)	560 (5.2)	44 (0.8)	527 (5.8)	26 (1.1)	501 (5.2)	9.6 (0.05)
Hungary	23 (0.7)	541 (4.8)	40 (0.8)	519 (3.7)	38 (0.9)	517 (3.0)	9.2 (0.04)
Iran, Islamic Rep. of	51 (1.0)	427 (4.4)	32 (0.8)	408 (4.3)	18 (0.7)	417 (3.5)	10.3 (0.04)
Ireland	23 (1.2)	560 (4.7)	38 (0.8)	542 (4.2)	40 (1.6)	514 (4.2)	9.1 (0.06)
Israel	28 (0.9)	500 (5.4)	33 (0.8)	486 (3.9)	40 (1.0)	476 (3.9)	9.2 (0.05)
Italy	20 (0.8)	519 (3.8)	37 (0.8)	506 (3.3)	44 (1.1)	494 (3.4)	9.0 (0.04)
Japan	13 (0.7)	582 (6.5)	45 (1.0)	573 (3.6)	42 (1.2)	536 (2.8)	8.9 (0.03)
Jordan	59 (1.0)	428 (4.0)	28 (0.8)	410 (4.0)	14 (0.6)	402 (5.5)	10.6 (0.04)
Kazakhstan	35 (1.1)	459 (4.1)	44 (0.9)	441 (3.1)	21 (0.7)	436 (3.9)	9.9 (0.04)
Korea, Rep. of	28 (0.8)	582 (3.3)	41 (0.8)	549 (3.1)	31 (0.8)	509 (2.6)	9.4 (0.03)
Kuwait	54 (1.2)	438 (6.3)	31 (0.8)	420 (6.0)	15 (0.8)	404 (6.7)	10.4 (0.05)
Lithuania	28 (0.8)	533 (4.0)	44 (1.0)	518 (3.5)	29 (0.9)	518 (3.5)	9.5 (0.03)
Malaysia	45 (1.0)	454 (3.7)	42 (0.8)	415 (3.7)	12 (0.5)	374 (5.3)	10.3 (0.03)
Malta	35 (0.7)	552 (3.1)	32 (0.8)	504 (3.1)	33 (0.8)	472 (2.7)	9.5 (0.03)
Morocco	52 (0.8)	337 (3.7)	32 (0.7)	319 (3.5)	15 (0.6)	317 (4.6)	10.4 (0.03)
Norway (9)	15 (0.5)	516 (4.7)	40 (0.8)	506 (2.8)	45 (0.8)	483 (3.3)	8.8 (0.03)
Oman	57 (0.9)	480 (2.6)	30 (0.7)	448 (3.6)	13 (0.6)	424 (5.0)	10.5 (0.03)
Palestinian Nat'l Auth.	54 (0.9)	416 (2.9)	28 (0.7)	393 (3.9)	17 (0.7)	373 (4.8)	10.4 (0.04)
Portugal	27 (0.8)	524 (3.0)	38 (0.9)	507 (3.4)	35 (1.0)	496 (2.5)	9.4 (0.03)
Qatar	52 (1.6)	501 (5.4)	31 (1.2)	484 (5.2)	17 (0.9)	453 (5.8)	10.3 (0.06)
Romania	33 (1.2)	476 (5.0)	35 (1.1)	473 (4.5)	32 (1.2)	472 (4.5)	9.5 (0.05)
Saudi Arabia	56 (1.0)	436 (3.8)	30 (0.7)	426 (4.4)	14 (0.7)	417 (4.9)	10.5 (0.04)
Singapore	45 (1.0)	636 (4.8)	41 (0.8)	594 (6.0)	14 (0.6)	549 (8.0)	10.2 (0.04)
South Africa (9)	52 (0.8)	364 (4.3)	32 (0.6)	346 (4.4)	16 (0.6)	387 (5.7)	10.3 (0.03)
Sweden	18 (0.9)	551 (5.0)	36 (1.0)	542 (4.1)	46 (1.0)	515 (3.2)	8.9 (0.04)
Türkiye	39 (1.0)	540 (4.3)	37 (0.9)	527 (4.0)	24 (0.7)	523 (5.2)	9.8 (0.04)
United Arab Emirates	57 (0.6)	509 (2.3)	29 (0.4)	489 (2.2)	14 (0.4)	459 (3.1)	10.6 (0.02)
United States	29 (0.9)	536 (4.7)	42 (0.7)	519 (3.9)	29 (0.7)	501 (4.0)	9.5 (0.03)
Uzbekistan	66 (1.2)	398 (3.9)	25 (0.9)	398 (4.9)	8 (0.6)	405 (5.0)	11.0 (0.04)
International Average	36 (0.1)	492 (0.7)	36 (0.1)	475 (0.6)	27 (0.1)	460 (0.8)	
Benchmarking Participants							
Abu Dhabi, UAE	52 (0.9)	476 (4.5)	31 (0.6)	453 (3.8)	17 (0.7)	412 (4.8)	10.3 (0.04)
Dubai, UAE	53 (1.0)	568 (3.1)	31 (0.8)	540 (3.7)	15 (0.6)	523 (4.5)	10.4 (0.04)
Sharjah, UAE	65 (1.4)	511 (5.6)	25 (0.9)	499 (5.8)	10 (0.7)	467 (6.6)	10.9 (0.06)

This TIMSS context questionnaire scale was established in 2011 based on the combined response distribution of countries that participated in TIMSS 2011. To provide a point of reference for country comparisons, the scale centerpoint of 10 was located at the mean of the combined distribution. The units of the scale were chosen so that 2 scale score points corresponded to the standard deviation of the distribution.

() Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.
An "r" indicates data are available for at least 70% but less than 85% of the students.