

Exhibit 6.3.4: Students Confident in Science

About the Scale

Students were scored according to their responses to eight statements on the *Students Confident in Science* scale. Cut scores divide the scale into three categories. Students **Very Confident in 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 were **Not Confident in 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 were **Somewhat Confident in Science**. At the eighth grade, a comparable approach was used for biology, chemistry, physics, and earth science in countries where these were taught as separate subjects.

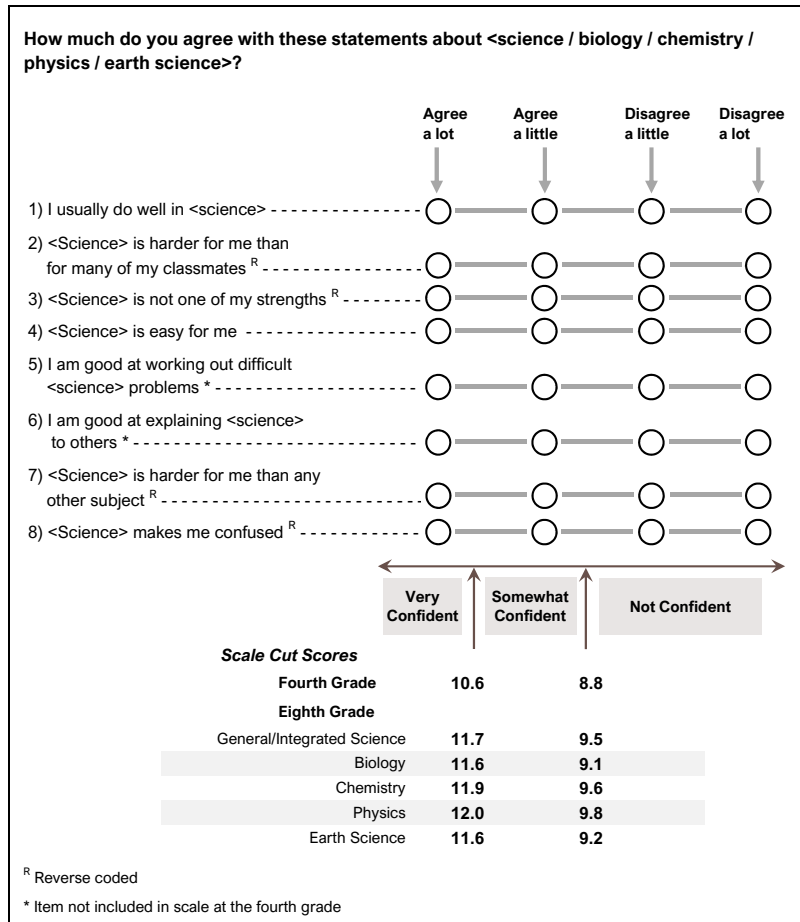


Exhibit 6.3.5: Students Confident in Science

Country	Very Confident in Science		Somewhat Confident in Science		Not Confident in Science		Average Scale Score
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	
Albania	49 (2.1)	516 (4.7)	25 (1.2)	489 (6.0)	26 (1.9)	465 (5.9)	10.6 (0.09)
Armenia	41 (1.4)	481 (2.8)	28 (0.9)	457 (3.3)	31 (1.2)	440 (3.4)	10.3 (0.06)
Australia	29 (1.1)	584 (3.7)	40 (1.0)	558 (3.1)	31 (1.0)	520 (3.2)	9.8 (0.04)
Azerbaijan	35 (1.2)	462 (3.7)	30 (0.9)	419 (4.0)	35 (1.0)	401 (3.7)	10.1 (0.05)
Bahrain	47 (1.6)	514 (4.9)	25 (1.0)	473 (4.6)	28 (1.3)	431 (4.6)	10.6 (0.07)
Belgium (Flemish)	30 (1.0)	521 (3.7)	39 (0.9)	497 (2.4)	31 (1.0)	454 (3.3)	9.8 (0.05)
Belgium (French)	29 (0.9)	517 (2.3)	37 (0.9)	486 (3.5)	34 (1.1)	451 (4.0)	9.8 (0.04)
Bosnia & Herzegovina	23 (1.2)	483 (3.8)	34 (1.9)	460 (4.1)	43 (1.9)	435 (5.3)	9.4 (0.07)
Brazil	21 (1.1)	485 (4.2)	33 (0.6)	446 (4.0)	46 (1.1)	412 (4.1)	9.4 (0.05)
Bulgaria	56 (1.6)	564 (3.4)	28 (1.1)	505 (7.6)	16 (1.1)	463 (8.6)	11.1 (0.07)
Canada	34 (0.7)	554 (2.1)	38 (0.6)	526 (2.8)	28 (0.8)	490 (2.6)	10.0 (0.03)
Chile	20 (0.8)	524 (3.7)	35 (0.9)	493 (3.2)	45 (1.1)	457 (3.1)	9.4 (0.04)
Chinese Taipei	38 (1.1)	602 (2.2)	35 (0.7)	569 (2.4)	27 (0.9)	541 (3.0)	10.2 (0.05)
Cyprus	28 (1.2)	529 (4.4)	29 (0.8)	493 (3.1)	43 (1.1)	463 (3.6)	9.5 (0.07)
Czech Republic	28 (1.0)	550 (2.6)	39 (0.8)	531 (2.9)	32 (0.9)	503 (3.2)	9.8 (0.04)
Denmark	31 (1.0)	551 (3.2)	42 (0.8)	524 (3.1)	26 (1.1)	494 (3.8)	9.9 (0.04)
England	29 (0.9)	586 (4.4)	39 (0.9)	565 (3.5)	32 (1.0)	533 (3.5)	9.7 (0.04)
Finland	31 (0.9)	573 (3.1)	43 (0.9)	549 (2.8)	26 (0.9)	509 (4.0)	9.9 (0.04)
France	28 (1.2)	526 (3.4)	37 (1.0)	493 (3.8)	34 (1.1)	461 (3.9)	9.7 (0.05)
Georgia	36 (1.2)	490 (3.6)	33 (0.9)	470 (4.1)	31 (1.1)	446 (5.2)	10.2 (0.06)
Germany	41 (1.1)	551 (3.2)	35 (0.8)	517 (3.4)	23 (0.9)	468 (5.2)	10.4 (0.05)
Hong Kong SAR	25 (0.8)	584 (4.4)	38 (1.0)	549 (4.3)	36 (1.1)	517 (4.6)	9.7 (0.04)
Hungary	41 (0.9)	557 (3.4)	33 (0.8)	520 (3.6)	26 (0.9)	491 (4.6)	10.4 (0.05)
Iran, Islamic Rep. of	51 (1.1)	472 (4.0)	26 (0.7)	419 (5.8)	23 (0.7)	376 (5.6)	10.8 (0.05)
Ireland	31 (0.9)	558 (3.6)	43 (1.0)	536 (3.7)	26 (1.0)	498 (5.0)	9.9 (0.04)
Italy	39 (1.0)	532 (2.6)	37 (0.9)	510 (2.7)	24 (0.8)	487 (3.8)	10.3 (0.04)
Japan	33 (1.0)	576 (2.7)	47 (0.9)	556 (3.1)	20 (0.8)	527 (4.3)	10.1 (0.04)
Jordan	36 (1.9)	461 (6.2)	27 (0.9)	412 (5.9)	37 (1.7)	390 (5.0)	10.1 (0.09)
Kazakhstan	33 (1.1)	502 (3.8)	40 (0.9)	465 (4.0)	26 (0.8)	436 (4.4)	10.2 (0.04)
Korea, Rep. of	27 (0.8)	615 (3.2)	43 (0.8)	585 (2.9)	29 (1.0)	552 (3.7)	9.8 (0.04)
Kosovo	34 (1.2)	439 (3.9)	30 (0.9)	403 (4.4)	36 (1.2)	376 (4.4)	9.9 (0.05)
Kuwait	42 (1.7)	420 (6.5)	28 (1.2)	385 (6.4)	30 (1.3)	340 (7.5)	10.4 (0.07)
Latvia	25 (1.2)	559 (4.2)	39 (1.2)	535 (3.1)	36 (1.2)	497 (4.1)	9.6 (0.05)
Lithuania	22 (0.8)	570 (2.9)	39 (1.0)	546 (3.4)	39 (1.2)	514 (3.5)	9.5 (0.04)
Macao SAR	40 (0.7)	558 (2.0)	33 (0.7)	535 (2.2)	27 (0.5)	504 (2.5)	10.2 (0.03)
Montenegro	36 (1.0)	493 (2.0)	29 (0.8)	464 (3.1)	35 (1.0)	437 (2.8)	10.1 (0.05)
Morocco	45 (1.5)	437 (6.1)	29 (0.9)	379 (6.0)	26 (1.2)	331 (6.1)	10.6 (0.07)
Netherlands	32 (1.1)	546 (3.6)	40 (1.1)	516 (3.8)	27 (1.1)	489 (3.4)	10.0 (0.05)
New Zealand	18 (0.8)	560 (4.4)	42 (1.0)	533 (3.2)	39 (1.1)	493 (3.4)	9.4 (0.04)
North Macedonia	30 (1.1)	491 (3.7)	28 (1.1)	449 (4.6)	42 (1.3)	418 (4.7)	9.8 (0.05)
Norway (5)	33 (1.3)	557 (3.4)	45 (1.0)	531 (3.0)	22 (0.9)	502 (3.8)	10.0 (0.04)
Oman	30 (1.1)	483 (4.5)	29 (0.8)	434 (5.7)	41 (1.3)	410 (4.4)	9.8 (0.05)
Poland	32 (1.2)	574 (2.7)	43 (0.9)	552 (2.4)	25 (1.0)	521 (3.7)	10.0 (0.05)
Portugal	44 (1.1)	536 (2.2)	32 (0.9)	507 (3.0)	23 (0.9)	473 (3.5)	10.5 (0.04)
Qatar	39 (1.0)	515 (3.6)	29 (0.8)	476 (4.6)	32 (1.0)	432 (5.1)	10.2 (0.05)
Romania	35 (1.5)	556 (4.8)	33 (1.0)	532 (5.0)	32 (1.5)	509 (5.6)	10.1 (0.07)
Saudi Arabia	36 (1.4)	480 (4.7)	26 (0.8)	434 (5.4)	38 (1.3)	404 (4.0)	10.1 (0.07)
Serbia	35 (1.3)	539 (3.6)	32 (1.0)	511 (3.8)	33 (1.3)	482 (3.5)	10.0 (0.06)
Singapore	27 (0.6)	642 (3.0)	35 (0.6)	614 (3.0)	38 (0.6)	579 (3.4)	9.6 (0.03)
Slovak Republic	32 (1.1)	555 (3.3)	37 (1.0)	518 (5.0)	31 (1.3)	494 (5.8)	10.0 (0.05)
Slovenia	31 (0.8)	562 (2.8)	38 (0.8)	532 (2.7)	32 (0.9)	492 (3.0)	9.9 (0.04)
South Africa (5)	27 (0.8)	401 (6.6)	34 (0.7)	302 (6.3)	38 (0.9)	245 (5.0)	9.8 (0.04)
Spain	30 (0.9)	536 (2.4)	35 (0.7)	510 (2.2)	35 (0.8)	477 (2.7)	9.8 (0.04)
Sweden	33 (0.9)	561 (3.9)	44 (0.8)	538 (3.0)	24 (1.0)	494 (5.0)	10.0 (0.04)
Türkiye (5)	46 (1.4)	598 (3.6)	31 (0.9)	561 (3.9)	23 (1.1)	529 (5.0)	10.6 (0.06)
United Arab Emirates	42 (0.6)	548 (1.8)	30 (0.4)	498 (2.3)	28 (0.4)	437 (2.4)	10.4 (0.02)
United States	38 (0.8)	572 (3.0)	33 (0.7)	538 (3.0)	28 (0.8)	493 (3.6)	10.2 (0.04)
Uzbekistan	45 (1.6)	445 (3.1)	24 (0.9)	401 (4.6)	31 (1.4)	381 (4.4)	10.6 (0.07)
International Average	34 (0.2)	530 (0.5)	35 (0.1)	497 (0.5)	31 (0.1)	463 (0.6)	
Benchmarking Participants							
Ontario, Canada	32 (1.1)	560 (3.3)	39 (1.2)	529 (4.2)	29 (1.4)	500 (3.9)	9.9 (0.06)
Quebec, Canada	35 (1.2)	536 (3.0)	37 (1.0)	511 (3.3)	28 (1.2)	475 (3.4)	10.1 (0.05)
Abu Dhabi, UAE	33 (1.1)	523 (3.0)	31 (0.6)	447 (3.6)	36 (0.9)	395 (3.1)	10.0 (0.05)
Dubai, UAE	47 (0.8)	594 (2.0)	33 (0.6)	561 (2.4)	21 (0.6)	510 (3.2)	10.6 (0.03)
Sharjah, UAE	48 (1.6)	541 (3.6)	27 (1.1)	502 (4.2)	25 (1.1)	451 (5.5)	10.7 (0.07)

This TIMSS context questionnaire scale was established in 2023 based on the combined response distribution of countries that participated in TIMSS 2023. 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.

Exhibit 6.3.6: Students Confident in Science

The general/integrated science panel summarizes responses for countries where students are enrolled in science as a single subject. The following panels for biology, chemistry, physics, and earth science summarize responses for countries where students are taught science as separate subjects.

Exhibit 6.3.6a: Students Confident in General/Integrated Science

Country	Very Confident in Science		Somewhat Confident in Science		Not Confident in Science		Average Scale Score
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	
Australia	11 (0.5)	594 (5.4)	37 (0.8)	550 (3.2)	51 (0.9)	494 (3.4)	9.7 (0.04)
Bahrain	24 (0.8)	522 (3.6)	38 (0.9)	466 (3.4)	38 (1.1)	415 (3.1)	10.6 (0.04)
Brazil	14 (0.5)	477 (4.8)	41 (0.7)	436 (3.2)	45 (0.8)	406 (2.6)	10.1 (0.03)
Chile	4 (0.4)	515 (8.8)	40 (1.2)	469 (3.6)	56 (1.3)	449 (2.7)	9.6 (0.03)
Chinese Taipei	10 (0.4)	646 (3.9)	26 (0.7)	610 (3.6)	64 (0.9)	547 (2.5)	9.1 (0.05)
England	12 (0.8)	612 (6.7)	36 (1.1)	560 (4.9)	52 (1.2)	506 (4.2)	9.6 (0.05)
Hong Kong SAR	12 (0.8)	587 (6.5)	34 (1.0)	555 (4.7)	54 (1.4)	502 (5.1)	9.8 (0.06)
Iran, Islamic Rep. of	25 (0.9)	471 (4.0)	40 (0.7)	418 (4.0)	35 (1.0)	385 (3.7)	10.6 (0.05)
Ireland	15 (0.8)	601 (4.8)	39 (0.9)	555 (3.3)	46 (1.1)	496 (4.1)	9.8 (0.06)
Israel	19 (0.9)	549 (4.2)	36 (0.8)	499 (4.0)	44 (1.3)	446 (3.4)	10.2 (0.06)
Italy	18 (0.8)	542 (3.9)	47 (0.8)	508 (3.3)	35 (1.0)	476 (3.7)	10.2 (0.04)
Japan	5 (0.4)	635 (5.7)	24 (0.9)	599 (3.5)	72 (1.1)	539 (3.1)	8.8 (0.07)
Jordan	18 (1.0)	485 (5.4)	38 (0.9)	418 (3.9)	44 (1.2)	394 (4.3)	10.3 (0.05)
Korea, Rep. of	9 (0.5)	623 (3.9)	25 (0.8)	579 (3.4)	66 (1.0)	523 (2.5)	9.0 (0.04)
Kuwait	29 (1.1)	471 (6.8)	40 (0.9)	426 (5.5)	30 (1.3)	386 (7.0)	10.9 (0.07)
Malaysia	8 (0.4)	488 (5.1)	43 (0.7)	438 (4.0)	49 (0.9)	409 (3.6)	9.8 (0.02)
Norway (9)	13 (0.6)	563 (3.8)	43 (0.8)	512 (2.7)	43 (0.9)	461 (3.1)	10.0 (0.03)
Oman	23 (0.7)	524 (3.4)	42 (0.7)	461 (2.6)	35 (0.8)	427 (3.4)	10.6 (0.03)
Palestinian Nat'l Auth.	16 (0.7)	469 (3.8)	38 (0.6)	402 (3.3)	46 (0.9)	378 (3.2)	10.3 (0.04)
Qatar	22 (1.2)	540 (6.7)	38 (1.0)	494 (5.1)	40 (1.3)	450 (4.0)	10.5 (0.07)
Saudi Arabia	23 (0.9)	476 (4.2)	38 (0.8)	429 (4.1)	39 (1.1)	403 (4.0)	10.6 (0.05)
Singapore	16 (0.7)	660 (5.1)	38 (0.8)	622 (6.2)	46 (1.1)	575 (6.1)	10.0 (0.05)
South Africa (9)	17 (0.8)	408 (4.7)	44 (0.6)	361 (4.8)	40 (1.0)	344 (4.2)	10.2 (0.04)
Türkiye	33 (1.2)	588 (3.6)	37 (0.8)	524 (3.7)	29 (1.1)	477 (4.1)	11.0 (0.06)
United Arab Emirates	25 (0.6)	557 (2.8)	37 (0.4)	509 (2.1)	38 (0.6)	442 (2.2)	10.7 (0.03)
United States	18 (0.9)	570 (5.5)	40 (0.9)	529 (4.3)	41 (1.2)	485 (3.9)	10.2 (0.05)
International Average	17 (0.2)	545 (1.0)	38 (0.2)	497 (0.8)	45 (0.2)	455 (0.8)	
Benchmarking Participants							
Abu Dhabi, UAE	20 (1.1)	543 (3.5)	36 (0.6)	475 (3.3)	44 (1.2)	403 (3.3)	10.4 (0.06)
Dubai, UAE	27 (1.0)	603 (3.3)	40 (1.0)	558 (3.0)	33 (1.1)	504 (3.6)	10.7 (0.05)
Sharjah, UAE	32 (1.8)	545 (8.0)	36 (1.0)	513 (5.8)	33 (1.3)	451 (4.0)	11.1 (0.11)

Separate Science Results

Exhibit 6.3.6b: Students Confident in Biology

Country	Very Confident in Biology		Somewhat Confident in Biology		Not Confident in Biology		Average Scale Score
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	
Austria	21 (0.8)	549 (3.5)	51 (1.0)	516 (2.6)	28 (1.2)	484 (4.1)	10.3 (0.05)
Azerbaijan	13 (0.7)	465 (5.0)	36 (0.9)	424 (3.9)	51 (1.2)	408 (3.2)	9.7 (0.04)
Cote d'Ivoire	16 (1.1)	250 (14.1)	50 (1.0)	167 (5.4)	34 (0.9)	150 (6.3)	10.1 (0.05)
Cyprus	20 (0.7)	527 (3.5)	35 (0.9)	480 (4.4)	45 (0.9)	440 (3.6)	9.9 (0.04)
Czech Republic	17 (0.7)	562 (2.8)	50 (0.7)	531 (2.1)	33 (0.9)	512 (2.3)	10.0 (0.04)
Finland	11 (0.6)	602 (4.5)	45 (0.7)	555 (3.2)	44 (0.9)	512 (3.6)	9.7 (0.04)
France	14 (0.9)	523 (4.9)	43 (1.3)	506 (3.4)	43 (1.6)	472 (3.8)	9.7 (0.07)
Georgia	24 (1.1)	490 (4.5)	42 (1.1)	455 (3.5)	34 (1.1)	432 (3.7)	10.4 (0.06)
Hungary	23 (1.0)	552 (3.3)	44 (0.9)	520 (3.3)	33 (1.0)	507 (4.4)	10.3 (0.06)
Kazakhstan	16 (0.8)	490 (4.8)	49 (0.9)	448 (3.5)	35 (1.1)	429 (3.5)	10.1 (0.05)
Lithuania	14 (0.9)	565 (4.6)	43 (0.8)	527 (3.2)	43 (1.0)	503 (3.8)	9.8 (0.05)
Morocco	12 (0.6)	372 (5.5)	40 (0.8)	328 (3.6)	47 (1.0)	318 (3.9)	9.7 (0.04)
Portugal	17 (0.8)	560 (3.9)	46 (0.9)	516 (2.6)	37 (1.1)	474 (2.6)	10.0 (0.04)
Romania	16 (1.1)	516 (5.2)	39 (1.4)	473 (4.7)	45 (1.7)	463 (4.6)	9.9 (0.07)
Sweden	12 (0.7)	597 (5.5)	45 (0.9)	551 (3.4)	43 (1.0)	500 (3.3)	9.7 (0.05)
Uzbekistan	24 (1.1)	427 (5.1)	40 (1.0)	397 (4.1)	36 (1.1)	385 (4.0)	10.5 (0.07)
International Average	17 (0.2)	503 (1.4)	44 (0.2)	462 (0.9)	39 (0.3)	437 (1.0)	
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This TIMSS context questionnaire scale was established in 2023 based on the combined response distribution of countries that participated in TIMSS 2023. 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. The separate scales for biology, chemistry, physics, and earth science were each established in 2023 using a comparable approach.

() 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.

A "y" indicates data are available for less than 40% of the students.

A dash (-) indicates comparable data not available.

Exhibit 6.3.6: Students Confident in Science

Separate Science Results

(Continued)

Exhibit 6.3.6c: Students Confident in Chemistry

Country	Very Confident in Chemistry		Somewhat Confident in Chemistry		Not Confident in Chemistry		Average Scale Score
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	
Austria	12 (0.6)	567 (4.4)	39 (1.0)	528 (2.9)	49 (1.2)	493 (3.1)	9.9 (0.05)
Azerbaijan	r 7 (0.6)	464 (6.7)	26 (1.0)	419 (5.0)	67 (1.1)	416 (3.0)	9.6 (0.05)
Cote d'Ivoire	18 (1.2)	254 (18.8)	51 (0.9)	178 (7.1)	31 (1.0)	153 (5.4)	10.6 (0.06)
Cyprus	r 25 (0.9)	523 (3.2)	35 (0.9)	476 (4.0)	40 (1.0)	440 (4.4)	10.8 (0.05)
Czech Republic	11 (0.6)	574 (3.6)	40 (1.2)	540 (2.2)	49 (1.5)	511 (2.5)	9.8 (0.06)
Finland	r 10 (0.6)	629 (4.2)	31 (1.0)	566 (3.7)	60 (1.2)	517 (2.8)	9.5 (0.05)
France	15 (0.9)	546 (4.0)	37 (1.0)	510 (3.3)	48 (1.4)	466 (3.7)	10.0 (0.06)
Georgia	20 (1.0)	499 (5.2)	37 (0.9)	455 (3.4)	43 (1.0)	435 (3.1)	10.5 (0.06)
Hungary	13 (0.6)	572 (4.0)	35 (1.1)	525 (3.7)	52 (1.4)	510 (3.4)	9.8 (0.06)
Kazakhstan	r 11 (0.7)	499 (5.8)	40 (0.8)	452 (3.7)	50 (1.1)	439 (3.2)	10.0 (0.04)
Lithuania	11 (0.7)	588 (4.3)	34 (0.8)	533 (3.7)	55 (1.2)	502 (3.1)	9.8 (0.05)
Morocco	r 13 (0.7)	387 (5.4)	41 (0.9)	329 (3.4)	46 (1.0)	313 (3.9)	10.2 (0.03)
Portugal	13 (0.7)	578 (3.8)	32 (0.8)	526 (2.7)	54 (1.1)	480 (2.4)	9.9 (0.05)
Romania	r 9 (0.7)	539 (5.8)	29 (1.1)	480 (4.3)	62 (1.3)	464 (4.2)	9.6 (0.06)
Sweden	s 11 (0.7)	614 (6.4)	39 (1.1)	557 (4.4)	51 (1.4)	503 (3.3)	9.9 (0.05)
Uzbekistan	16 (1.1)	428 (6.2)	37 (0.9)	397 (4.0)	47 (1.1)	392 (3.9)	10.5 (0.06)
International Average	13 (0.2)	516 (1.7)	36 (0.2)	467 (1.0)	50 (0.3)	440 (0.9)	
Malta	y --	--	--	--	--	--	--

Exhibit 6.3.6d: Students Confident in Physics

Country	Very Confident in Physics		Somewhat Confident in Physics		Not Confident in Physics		Average Scale Score
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	
Austria	11 (0.6)	568 (4.9)	38 (1.1)	528 (3.7)	51 (1.2)	495 (3.0)	10.0 (0.05)
Azerbaijan	r 10 (0.6)	479 (5.3)	28 (0.8)	425 (4.3)	63 (0.9)	409 (3.2)	10.0 (0.04)
Cote d'Ivoire	18 (1.2)	257 (18.9)	51 (0.9)	177 (6.7)	31 (1.0)	154 (5.9)	10.8 (0.06)
Cyprus	r 15 (0.7)	536 (4.8)	29 (0.9)	485 (4.3)	56 (1.0)	450 (3.4)	10.1 (0.05)
Czech Republic	9 (0.5)	585 (4.4)	35 (1.0)	546 (2.6)	55 (1.2)	511 (2.1)	9.6 (0.05)
Finland	r 8 (0.5)	631 (5.5)	29 (0.9)	572 (4.4)	62 (1.2)	520 (3.1)	9.5 (0.05)
France	15 (0.9)	546 (4.0)	37 (1.0)	510 (3.3)	49 (1.4)	466 (3.7)	10.1 (0.06)
Georgia	r 15 (1.0)	506 (5.2)	32 (0.9)	461 (4.2)	54 (1.3)	438 (3.2)	10.1 (0.07)
Hungary	14 (0.8)	574 (3.8)	34 (1.0)	531 (3.9)	52 (1.3)	504 (3.5)	10.0 (0.06)
Kazakhstan	11 (0.6)	501 (5.7)	41 (1.0)	453 (3.4)	48 (1.1)	438 (3.3)	10.2 (0.04)
Lithuania	8 (0.5)	601 (5.0)	28 (0.8)	539 (3.6)	64 (1.0)	506 (3.2)	9.6 (0.04)
Malta	r 16 (0.6)	589 (4.7)	33 (1.0)	535 (3.0)	51 (1.0)	477 (2.4)	10.1 (0.04)
Morocco	r 12 (0.7)	381 (5.6)	42 (0.8)	332 (3.6)	46 (1.1)	312 (3.8)	10.4 (0.04)
Portugal	13 (0.7)	578 (3.8)	32 (0.8)	526 (2.7)	54 (1.1)	480 (2.4)	10.0 (0.05)
Romania	r 7 (0.6)	546 (6.5)	27 (1.2)	485 (4.7)	66 (1.3)	464 (4.1)	9.7 (0.06)
Sweden	r 10 (0.8)	615 (5.7)	38 (1.2)	554 (4.1)	51 (1.2)	505 (3.1)	10.0 (0.05)
Uzbekistan	16 (1.0)	431 (6.6)	39 (0.8)	403 (4.1)	46 (1.2)	389 (3.4)	10.6 (0.06)
International Average	12 (0.2)	525 (1.6)	35 (0.2)	474 (1.0)	53 (0.3)	442 (0.8)	

Exhibit 6.3.6e: Students Confident in Earth Science

Country	Very Confident in Earth Science		Somewhat Confident in Earth Science		Not Confident in Earth Science		Average Scale Score
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	
Austria	21 (0.8)	546 (3.2)	45 (0.9)	517 (3.1)	34 (1.2)	494 (3.5)	10.2 (0.05)
Azerbaijan	r 11 (0.7)	468 (5.3)	34 (0.9)	423 (4.0)	54 (1.1)	408 (3.2)	9.7 (0.04)
Cote d'Ivoire	18 (1.2)	256 (17.2)	53 (0.8)	177 (6.5)	29 (0.9)	150 (6.9)	10.3 (0.05)
Cyprus	r 22 (0.8)	513 (4.5)	35 (0.9)	478 (3.8)	43 (1.1)	436 (3.4)	10.1 (0.05)
Czech Republic	21 (0.7)	554 (3.2)	45 (0.9)	530 (2.4)	34 (1.1)	515 (2.7)	10.1 (0.05)
Finland	r 13 (0.6)	598 (4.3)	45 (0.8)	557 (2.9)	42 (1.0)	507 (3.6)	9.8 (0.04)
France	14 (0.9)	523 (4.9)	43 (1.3)	506 (3.4)	43 (1.6)	472 (3.8)	9.7 (0.07)
Georgia	22 (1.2)	488 (4.7)	39 (1.2)	457 (4.3)	39 (1.1)	435 (3.2)	10.3 (0.07)
Hungary	22 (0.7)	557 (3.9)	41 (0.8)	527 (3.1)	36 (1.1)	498 (4.1)	10.2 (0.05)
Kazakhstan	14 (0.8)	496 (5.5)	48 (0.8)	452 (3.3)	37 (1.0)	430 (3.3)	10.0 (0.05)
Lithuania	15 (0.7)	566 (4.1)	42 (0.9)	527 (3.4)	42 (1.0)	502 (3.6)	10.0 (0.04)
Morocco	r 11 (0.6)	376 (6.0)	41 (0.9)	328 (3.7)	48 (1.1)	318 (3.6)	9.7 (0.03)
Portugal	17 (0.8)	560 (3.9)	45 (0.9)	516 (2.6)	37 (1.1)	474 (2.6)	10.1 (0.04)
Uzbekistan	r 17 (1.2)	427 (6.5)	40 (0.9)	400 (3.9)	43 (1.2)	388 (4.0)	10.2 (0.07)
International Average	17 (0.2)	495 (1.7)	43 (0.3)	457 (1.0)	40 (0.3)	431 (1.0)	
Malta	x 16 (0.8)	577 (6.0)	39 (1.2)	522 (3.8)	45 (1.1)	467 (3.7)	9.9 (0.04)
Romania	y --	--	--	--	--	--	--
Sweden	--	--	--	--	--	--	--

This TIMSS context questionnaire scale was established in 2023 based on the combined response distribution of countries that participated in TIMSS 2023. 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. The separate scales for biology, chemistry, physics, and earth science were each established in 2023 using a comparable approach.

() 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. An "s" indicates data are available for at least 50% but less than 70% of the students.

An "x" indicates data are available for at least 40% but less than 50% of the students—interpret with caution. A "y" indicates data are available for less than 40% of the students.

A dash (-) indicates comparable data not available.