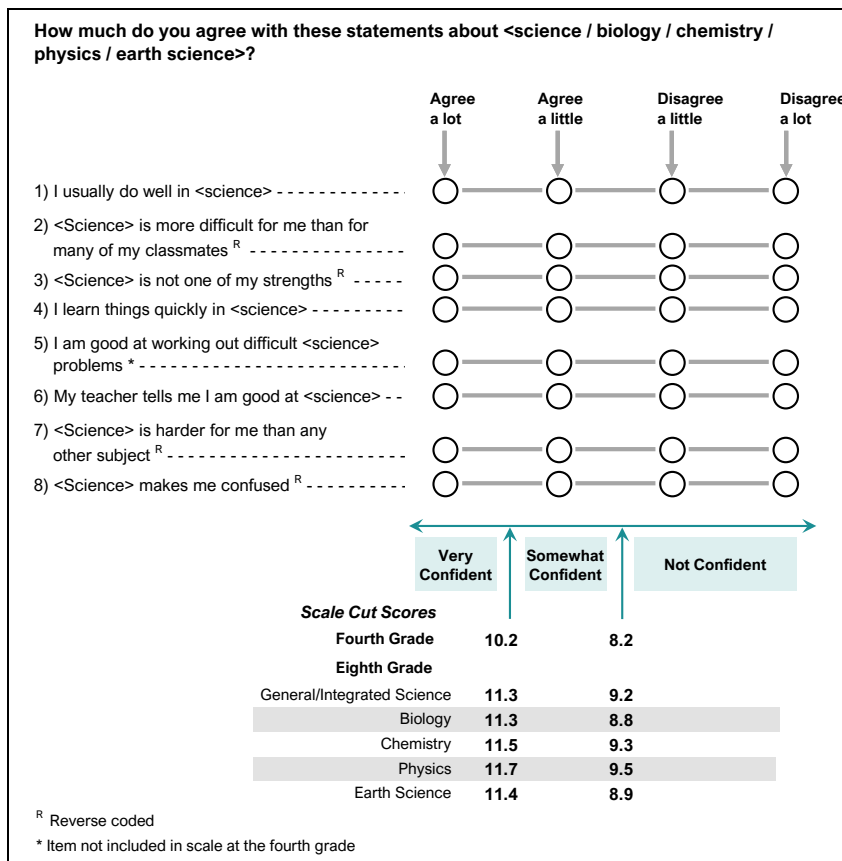


### Exhibit 11.10: Students Confident in Science

Students' Reports

#### 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.



SOURCE: IEA's Trends in International Mathematics and Science Study - TIMSS 2019  
 Downloaded from <http://timss2019.org/download>

## Exhibit 11.11: Students Confident in Science

Students' Reports

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	60 (1.6)	509 (3.7)	30 (1.4)	474 (5.0)	9 (0.7)	428 (9.0)	10.9 (0.07)
Bulgaria	58 (1.8)	555 (3.9)	30 (1.1)	499 (6.5)	12 (1.1)	443 (8.3)	10.7 (0.08)
Iran, Islamic Rep. of	57 (1.4)	472 (4.2)	30 (1.0)	416 (5.5)	13 (1.0)	374 (7.5)	10.7 (0.06)
Bahrain	57 (1.3)	521 (3.2)	30 (0.9)	473 (4.0)	13 (0.7)	430 (6.3)	10.8 (0.06)
Montenegro	53 (1.1)	482 (2.8)	30 (0.8)	443 (3.2)	17 (0.7)	403 (4.5)	10.5 (0.04)
Saudi Arabia	51 (1.2)	444 (3.7)	32 (1.0)	386 (5.6)	16 (0.9)	341 (7.7)	10.5 (0.06)
Turkey (5)	50 (1.4)	556 (3.8)	36 (1.0)	510 (4.6)	14 (0.9)	470 (7.0)	10.4 (0.06)
Oman	50 (1.4)	480 (5.2)	35 (1.1)	412 (4.4)	15 (0.8)	363 (6.3)	10.5 (0.06)
Austria	49 (1.1)	544 (2.7)	37 (1.0)	511 (3.0)	13 (0.7)	474 (4.8)	10.4 (0.04)
North Macedonia	49 (2.0)	471 (5.1)	35 (1.7)	403 (7.1)	16 (0.9)	365 (8.2)	10.4 (0.08)
Azerbaijan	48 (1.4)	457 (3.2)	36 (1.2)	422 (3.8)	16 (0.8)	395 (6.0)	10.3 (0.06)
Armenia	47 (1.3)	490 (3.3)	36 (1.1)	462 (4.2)	17 (0.8)	436 (5.8)	10.3 (0.06)
Kosovo	47 (1.2)	444 (3.9)	37 (1.0)	404 (4.2)	16 (0.9)	361 (7.0)	10.3 (0.05)
United Arab Emirates	46 (0.6)	505 (2.5)	36 (0.5)	465 (2.5)	17 (0.4)	417 (3.2)	10.3 (0.03)
Kuwait	46 (1.4)	435 (6.7)	36 (0.9)	384 (6.7)	18 (0.9)	338 (9.0)	10.3 (0.06)
Bosnia and Herzegovina	46 (0.9)	482 (3.3)	36 (0.7)	451 (3.5)	19 (0.7)	425 (4.3)	10.2 (0.04)
Morocco	46 (1.2)	416 (4.9)	39 (0.8)	355 (7.9)	15 (0.8)	305 (9.0)	10.3 (0.05)
Hungary	45 (1.2)	553 (2.6)	39 (0.8)	520 (3.2)	16 (0.8)	484 (5.1)	10.2 (0.05)
Georgia	44 (1.4)	472 (4.3)	38 (1.1)	448 (5.3)	19 (1.1)	423 (6.1)	10.1 (0.06)
Kazakhstan	43 (1.4)	511 (3.9)	46 (1.1)	485 (3.4)	11 (0.7)	479 (5.4)	10.2 (0.06)
Portugal	43 (1.2)	522 (2.8)	44 (1.0)	499 (2.8)	13 (0.6)	463 (4.0)	10.1 (0.04)
Qatar	42 (1.4)	488 (3.9)	38 (1.0)	441 (6.2)	20 (1.0)	395 (5.6)	10.1 (0.06)
Malta	42 (0.9)	521 (2.1)	38 (0.8)	488 (2.4)	20 (0.7)	457 (3.0)	9.9 (0.03)
Norway (5)	41 (1.1)	557 (2.4)	46 (1.1)	535 (3.0)	12 (0.8)	511 (5.0)	10.0 (0.04)
Germany	40 (1.1)	551 (2.8)	44 (0.8)	517 (3.1)	17 (0.9)	471 (4.6)	9.9 (0.04)
Cyprus	39 (1.5)	535 (3.1)	37 (1.1)	504 (2.9)	23 (1.1)	485 (4.6)	9.9 (0.07)
Italy	39 (1.0)	522 (3.8)	46 (0.9)	509 (3.1)	15 (0.9)	483 (4.5)	10.0 (0.04)
Croatia	39 (1.2)	541 (2.5)	49 (1.2)	518 (2.4)	12 (0.9)	496 (4.9)	10.0 (0.05)
United States	38 (0.9)	565 (2.7)	42 (0.7)	540 (2.9)	20 (0.7)	500 (4.4)	9.8 (0.04)
Belgium (Flemish)	37 (1.1)	521 (2.5)	45 (0.9)	498 (2.5)	18 (0.8)	467 (3.5)	9.8 (0.05)
Serbia	37 (1.4)	540 (4.0)	47 (1.2)	515 (4.1)	17 (1.0)	476 (6.7)	9.9 (0.06)
Sweden	36 (1.5)	552 (4.0)	49 (1.1)	538 (3.2)	14 (0.9)	504 (6.5)	9.8 (0.06)
Spain	35 (1.1)	535 (2.7)	41 (1.0)	508 (2.2)	23 (1.0)	486 (3.4)	9.8 (0.05)
Canada	35 (0.7)	540 (2.4)	46 (0.7)	523 (2.1)	19 (0.7)	498 (2.5)	9.7 (0.03)
Ireland	35 (0.9)	542 (4.0)	48 (0.9)	529 (3.9)	18 (0.9)	502 (4.4)	9.7 (0.04)
Slovak Republic	33 (1.2)	546 (3.4)	46 (1.0)	519 (4.1)	21 (0.9)	487 (6.9)	9.6 (0.05)
Netherlands	32 (1.1)	541 (3.7)	48 (1.0)	519 (3.1)	19 (1.0)	486 (3.8)	9.6 (0.05)
Australia	32 (1.1)	553 (3.0)	47 (0.9)	532 (2.8)	21 (0.9)	508 (4.1)	9.6 (0.04)
Poland	32 (1.2)	553 (3.3)	49 (0.9)	531 (2.8)	19 (0.8)	503 (3.6)	9.6 (0.05)
Chinese Taipei	31 (1.0)	583 (2.2)	51 (0.9)	556 (2.1)	18 (1.0)	522 (3.4)	9.6 (0.04)
Latvia	31 (1.1)	559 (2.8)	51 (1.1)	540 (2.8)	18 (1.0)	520 (3.7)	9.6 (0.04)
Russian Federation	29 (1.0)	583 (3.1)	46 (1.1)	567 (3.5)	24 (0.9)	550 (3.5)	9.5 (0.05)
Lithuania	29 (1.2)	564 (3.0)	52 (1.0)	533 (3.1)	19 (1.0)	516 (4.3)	9.6 (0.05)
Northern Ireland	29 (1.0)	536 (3.1)	49 (0.9)	523 (2.9)	22 (0.8)	487 (4.1)	9.4 (0.04)
Denmark	29 (1.2)	545 (3.3)	50 (1.1)	522 (2.6)	21 (1.0)	493 (3.2)	9.5 (0.05)
England	28 (1.0)	559 (4.2)	47 (1.0)	538 (3.2)	25 (1.2)	516 (3.9)	9.4 (0.05)
Finland	27 (0.8)	573 (3.4)	57 (0.9)	555 (2.6)	16 (0.7)	525 (4.0)	9.5 (0.03)
France	27 (0.9)	517 (3.8)	48 (1.0)	492 (3.3)	25 (1.0)	451 (4.1)	9.4 (0.04)
Japan	27 (0.9)	582 (2.7)	59 (0.8)	558 (1.9)	14 (0.7)	540 (3.7)	9.5 (0.03)
Czech Republic	25 (1.0)	560 (3.9)	50 (1.0)	535 (3.3)	25 (1.2)	507 (2.9)	9.3 (0.05)
South Africa (5)	23 (0.8)	421 (6.3)	47 (0.7)	317 (5.4)	30 (0.7)	274 (5.2)	9.3 (0.03)
Singapore	23 (0.6)	626 (3.6)	44 (0.7)	599 (3.6)	33 (0.7)	567 (3.9)	9.1 (0.03)
Pakistan	23 (3.2)	333 (19.9)	49 (2.3)	289 (14.4)	28 (3.5)	262 (14.1)	9.4 (0.16)
Chile	23 (1.0)	508 (3.8)	48 (0.8)	473 (2.8)	30 (0.9)	439 (3.6)	9.2 (0.04)
Hong Kong SAR	23 (0.9)	562 (3.9)	49 (1.1)	532 (3.5)	29 (1.2)	506 (4.9)	9.2 (0.05)
New Zealand	21 (0.7)	529 (3.3)	53 (0.9)	508 (2.7)	26 (0.8)	476 (3.3)	9.2 (0.03)
Korea, Rep. of	17 (0.8)	620 (3.1)	59 (1.1)	587 (2.6)	23 (1.0)	564 (3.2)	9.1 (0.03)
Philippines	10 (0.9)	372 (10.6)	52 (0.9)	258 (7.2)	38 (1.2)	212 (7.4)	8.8 (0.04)
<b>International Average</b>	<b>38 (0.2)</b>	<b>520 (0.6)</b>	<b>43 (0.1)</b>	<b>486 (0.6)</b>	<b>19 (0.1)</b>	<b>453 (0.7)</b>	
<b>Benchmarking Participants</b>							
Dubai, UAE	48 (0.9)	559 (2.0)	38 (0.9)	537 (2.9)	13 (0.5)	516 (4.3)	10.3 (0.03)
Abu Dhabi, UAE	37 (1.0)	462 (4.1)	39 (0.7)	412 (3.4)	24 (0.8)	369 (4.3)	9.9 (0.04)
Quebec, Canada	36 (1.1)	537 (3.4)	47 (1.2)	519 (3.0)	17 (1.0)	496 (3.5)	9.8 (0.05)
Madrid, Spain	34 (1.1)	546 (2.5)	41 (1.0)	521 (2.7)	25 (0.9)	496 (3.1)	9.6 (0.05)
Moscow City, Russian Fed.	33 (1.2)	606 (3.2)	45 (0.9)	599 (2.6)	22 (1.0)	571 (3.7)	9.6 (0.04)
Ontario, Canada	32 (1.1)	541 (4.6)	46 (1.1)	527 (3.2)	22 (1.1)	501 (4.0)	9.6 (0.05)

This TIMSS context questionnaire scale was established in 2011 based on the combined response distribution of all 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.

## Exhibit 11.12: Students Confident in Science

Students' Reports

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.

## 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	
Iran, Islamic Rep. of	38 (1.1)	490 (3.9)	40 (0.9)	434 (4.3)	22 (0.9)	407 (4.0)	11.0 (0.06)
Turkey	38 (1.2)	569 (3.5)	37 (0.8)	502 (4.2)	25 (1.0)	455 (4.5)	10.9 (0.06)
Jordan	37 (1.4)	502 (3.6)	38 (0.6)	448 (4.5)	25 (1.3)	400 (5.8)	11.0 (0.07)
Bahrain	36 (1.3)	531 (2.4)	38 (0.7)	487 (3.8)	26 (1.0)	432 (4.1)	10.8 (0.06)
Egypt	35 (1.1)	445 (5.1)	38 (0.7)	384 (5.7)	27 (1.1)	343 (6.8)	10.8 (0.06)
Saudi Arabia	33 (1.0)	474 (3.4)	42 (0.8)	425 (3.1)	25 (1.0)	399 (3.7)	10.7 (0.05)
Israel	31 (1.2)	568 (4.4)	37 (0.9)	513 (4.3)	32 (1.2)	471 (5.0)	10.5 (0.06)
Kuwait	31 (1.3)	490 (5.1)	42 (0.7)	440 (5.6)	27 (1.2)	410 (7.6)	10.6 (0.06)
Oman	29 (1.0)	516 (4.1)	46 (0.8)	457 (3.5)	26 (0.7)	408 (4.3)	10.6 (0.04)
United Arab Emirates	29 (0.6)	541 (2.6)	41 (0.6)	476 (2.7)	30 (0.5)	413 (2.9)	10.5 (0.03)
Qatar	28 (1.3)	527 (4.7)	39 (1.1)	480 (4.6)	33 (1.2)	427 (5.2)	10.4 (0.06)
United States	26 (0.9)	570 (5.4)	41 (0.7)	528 (4.9)	33 (0.9)	487 (4.5)	10.2 (0.04)
Norway (9)	24 (0.9)	548 (4.1)	43 (0.8)	503 (3.0)	34 (1.1)	454 (4.2)	10.1 (0.04)
Italy	23 (1.0)	536 (3.6)	50 (1.1)	501 (2.5)	27 (1.1)	471 (3.6)	10.2 (0.04)
Ireland	19 (0.9)	581 (3.7)	36 (1.1)	543 (3.1)	45 (1.3)	492 (3.3)	9.6 (0.06)
South Africa (9)	18 (0.6)	425 (4.0)	45 (0.5)	370 (3.5)	37 (0.8)	349 (3.1)	9.9 (0.03)
Singapore	17 (0.6)	652 (3.9)	37 (0.8)	621 (4.2)	46 (1.0)	581 (4.1)	9.6 (0.04)
Australia	16 (0.7)	586 (4.2)	39 (0.8)	543 (3.3)	45 (1.1)	499 (3.6)	9.6 (0.05)
England	15 (1.0)	581 (6.9)	38 (1.2)	539 (4.6)	48 (1.7)	488 (5.5)	9.4 (0.07)
New Zealand	12 (0.7)	567 (5.5)	40 (1.0)	517 (4.5)	47 (1.2)	470 (4.0)	9.5 (0.04)
Chile	12 (0.8)	511 (5.4)	45 (1.1)	469 (3.2)	43 (1.4)	445 (3.2)	9.6 (0.04)
Hong Kong SAR	11 (0.6)	566 (6.2)	38 (1.1)	527 (5.8)	50 (1.2)	472 (6.3)	9.4 (0.05)
Chinese Taipei	10 (0.5)	645 (3.5)	27 (0.7)	609 (2.7)	63 (0.9)	548 (2.1)	8.9 (0.04)
Korea, Rep. of	9 (0.5)	639 (4.9)	25 (0.9)	602 (2.9)	65 (1.1)	533 (2.2)	8.9 (0.04)
Malaysia	8 (0.4)	523 (5.0)	47 (0.9)	469 (3.7)	45 (1.1)	441 (4.0)	9.5 (0.03)
Japan	6 (0.4)	636 (3.9)	28 (0.8)	601 (2.8)	66 (0.9)	550 (2.3)	8.7 (0.04)
<b>International Average</b>	<b>23 (0.2)</b>	<b>547 (0.9)</b>	<b>39 (0.2)</b>	<b>500 (0.8)</b>	<b>38 (0.2)</b>	<b>456 (0.9)</b>	
<b>Benchmarking Participants</b>							
Dubai, UAE	32 (1.5)	588 (3.8)	44 (1.4)	546 (2.9)	25 (0.7)	500 (3.5)	10.7 (0.06)
Quebec, Canada	25 (1.1)	570 (4.2)	46 (1.1)	542 (3.7)	29 (1.5)	503 (4.9)	10.2 (0.07)
Abu Dhabi, UAE	22 (0.8)	524 (4.2)	39 (0.6)	423 (4.5)	38 (0.9)	363 (4.7)	10.2 (0.04)
Gauteng, RSA (9)	22 (1.0)	463 (5.3)	44 (0.7)	421 (4.0)	34 (1.2)	401 (5.2)	10.1 (0.05)
Ontario, Canada	21 (1.2)	561 (4.6)	43 (1.3)	527 (3.3)	36 (1.3)	493 (3.5)	10.0 (0.06)
Western Cape, RSA (9)	16 (0.8)	494 (7.3)	42 (0.9)	443 (5.5)	42 (1.2)	421 (5.1)	9.7 (0.05)

## Separate Science Results

## 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	
Georgia	30 (1.4)	481 (4.9)	41 (1.2)	444 (4.2)	28 (1.4)	423 (5.4)	10.4 (0.07)
Hungary	28 (1.3)	560 (3.6)	45 (1.0)	527 (3.1)	26 (1.3)	504 (4.3)	10.3 (0.07)
Cyprus	27 (1.0)	529 (2.7)	35 (1.0)	487 (3.0)	38 (1.2)	455 (2.9)	9.9 (0.06)
Lebanon	27 (1.3)	436 (7.0)	40 (1.0)	372 (5.9)	33 (1.3)	344 (5.7)	10.2 (0.07)
Romania	24 (1.2)	506 (4.7)	46 (1.1)	467 (4.6)	30 (1.4)	453 (5.5)	10.1 (0.07)
Morocco	24 (1.0)	442 (4.0)	44 (0.8)	390 (3.1)	32 (0.9)	370 (3.0)	10.1 (0.05)
Kazakhstan	24 (1.1)	502 (4.6)	55 (1.0)	476 (3.3)	21 (1.1)	458 (4.7)	10.3 (0.05)
Portugal	22 (1.1)	559 (4.1)	50 (1.1)	522 (2.8)	28 (1.3)	487 (4.1)	10.0 (0.06)
Russian Federation	21 (1.0)	559 (5.8)	51 (0.8)	546 (4.3)	28 (1.1)	526 (4.6)	10.0 (0.06)
Lithuania	19 (1.0)	567 (3.4)	49 (1.2)	533 (3.2)	32 (1.6)	517 (4.8)	9.8 (0.07)
Sweden	18 (0.9)	579 (4.9)	51 (1.0)	532 (3.7)	31 (1.2)	491 (4.4)	9.8 (0.05)
Finland	17 (0.9)	593 (3.4)	51 (0.8)	553 (3.4)	31 (1.0)	508 (4.1)	9.8 (0.05)
France	13 (0.6)	539 (4.7)	46 (1.3)	498 (3.1)	41 (1.5)	462 (3.1)	9.3 (0.06)
<b>International Average</b>	<b>23 (0.3)</b>	<b>527 (1.3)</b>	<b>46 (0.3)</b>	<b>488 (1.0)</b>	<b>31 (0.4)</b>	<b>461 (1.2)</b>	
<b>Benchmarking Participants</b>							
Moscow City, Russian Fed.	21 (1.2)	580 (3.9)	48 (1.1)	567 (3.3)	31 (1.3)	559 (4.2)	9.9 (0.06)

This TIMSS context questionnaire scale for general/integrated science was established in 2011 based on the combined response distribution of all countries that participated in TIMSS 2011 where science is taught as a single subject. 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 2019 using a comparable approach.

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

## Exhibit 11.12: Students Confident in Science

Students' Reports

## Separate Science Results

(Continued)

Students Confident in Chemistry

Chemistry	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	
Cyprus	38 (1.2)	518 (2.9)	36 (1.1)	484 (2.9)	25 (1.0)	446 (3.0)	11.0 (0.05)
Lebanon	31 (1.5)	428 (5.8)	40 (1.1)	368 (5.5)	30 (1.3)	346 (7.0)	10.7 (0.07)
Georgia	25 (1.3)	493 (4.7)	35 (1.1)	451 (4.7)	40 (1.5)	422 (4.4)	10.2 (0.07)
Morocco	23 (0.9)	444 (4.1)	44 (0.7)	390 (3.2)	34 (0.9)	371 (2.7)	10.4 (0.04)
Kazakhstan	20 (0.9)	511 (4.2)	46 (1.0)	479 (3.5)	34 (1.3)	460 (4.5)	10.2 (0.05)
Lithuania	18 (1.0)	579 (4.1)	40 (1.0)	538 (3.9)	42 (1.6)	513 (3.5)	9.8 (0.07)
Portugal	17 (1.0)	571 (4.6)	38 (1.3)	526 (3.2)	45 (1.8)	495 (3.3)	9.8 (0.07)
Sweden	17 (0.9)	581 (6.3)	42 (1.1)	537 (3.9)	41 (1.3)	493 (3.8)	9.9 (0.05)
Russian Federation	17 (0.8)	577 (5.1)	36 (0.9)	550 (4.7)	48 (1.1)	527 (4.4)	9.7 (0.05)
Romania	16 (1.0)	521 (5.7)	33 (1.1)	478 (5.0)	51 (1.5)	454 (4.7)	9.6 (0.06)
Finland	15 (0.9)	613 (3.1)	36 (0.9)	562 (3.5)	48 (1.2)	515 (3.2)	9.6 (0.05)
Hungary	14 (0.8)	575 (5.5)	35 (1.1)	530 (3.0)	51 (1.5)	518 (3.4)	9.5 (0.07)
France	12 (0.8)	549 (4.4)	38 (1.1)	501 (3.6)	49 (1.6)	465 (2.9)	9.5 (0.06)
<b>International Average</b>	<b>20 (0.3)</b>	<b>535 (1.3)</b>	<b>39 (0.3)</b>	<b>492 (1.1)</b>	<b>41 (0.4)</b>	<b>463 (1.1)</b>	
<b>Benchmarking Participants</b>							
Moscow City, Russian Fed.	15 (0.9)	598 (4.3)	34 (0.9)	575 (3.1)	50 (1.3)	552 (3.3)	9.5 (0.06)

Students Confident in Physics

Physics	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	
Lebanon	25 (1.3)	435 (5.9)	38 (0.9)	372 (5.7)	36 (1.4)	352 (6.0)	10.6 (0.07)
Cyprus	24 (1.0)	533 (3.3)	31 (1.0)	491 (2.8)	45 (1.2)	460 (3.0)	10.1 (0.06)
Morocco	23 (0.9)	443 (4.1)	44 (0.7)	390 (2.9)	33 (0.9)	374 (3.1)	10.6 (0.04)
Kazakhstan	19 (0.9)	512 (5.2)	49 (1.0)	478 (3.3)	32 (1.2)	461 (4.1)	10.3 (0.05)
Hungary	18 (1.0)	582 (4.5)	37 (1.0)	534 (3.2)	45 (1.5)	506 (3.3)	10.0 (0.06)
Georgia	18 (1.1)	497 (5.3)	36 (1.1)	456 (5.0)	46 (1.4)	427 (4.0)	10.0 (0.06)
Portugal	17 (1.0)	571 (4.6)	38 (1.3)	526 (3.2)	45 (1.8)	495 (3.3)	10.0 (0.08)
Russian Federation	17 (0.8)	572 (6.2)	45 (1.0)	548 (3.7)	38 (1.1)	526 (4.9)	10.2 (0.04)
Sweden	16 (0.9)	592 (5.3)	43 (0.9)	541 (3.6)	42 (1.1)	491 (3.9)	10.0 (0.04)
Finland	13 (0.7)	613 (3.6)	35 (1.0)	560 (3.9)	52 (1.3)	516 (3.7)	9.6 (0.05)
France	12 (0.8)	549 (4.4)	38 (1.1)	501 (3.6)	50 (1.6)	465 (2.9)	9.6 (0.06)
Romania	12 (0.7)	529 (6.2)	34 (1.1)	476 (5.2)	54 (1.3)	458 (4.3)	9.6 (0.05)
Lithuania	11 (0.7)	589 (4.8)	32 (1.1)	543 (3.5)	57 (1.5)	520 (3.5)	9.4 (0.06)
<b>International Average</b>	<b>17 (0.3)</b>	<b>540 (1.4)</b>	<b>38 (0.3)</b>	<b>494 (1.1)</b>	<b>44 (0.4)</b>	<b>465 (1.1)</b>	
<b>Benchmarking Participants</b>							
Moscow City, Russian Fed.	17 (0.9)	601 (4.2)	41 (0.9)	573 (3.4)	42 (1.2)	547 (3.1)	10.0 (0.05)

Students Confident in Earth Science

Earth Science	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	
Cyprus	30 (1.0)	522 (2.8)	37 (1.1)	489 (2.9)	33 (1.1)	456 (3.3)	10.2 (0.05)
Georgia	25 (1.5)	493 (4.5)	42 (1.3)	451 (4.4)	33 (1.7)	418 (5.3)	10.1 (0.07)
Hungary	25 (1.2)	563 (4.1)	42 (1.0)	526 (3.0)	33 (1.4)	510 (3.5)	10.0 (0.08)
Romania	24 (1.6)	509 (6.4)	46 (1.2)	470 (5.9)	31 (1.8)	450 (6.8)	10.2 (0.08)
Russian Federation	23 (0.8)	560 (5.1)	51 (0.9)	546 (3.9)	26 (0.9)	524 (5.2)	10.2 (0.04)
Kazakhstan	23 (1.0)	505 (4.7)	54 (1.0)	477 (3.5)	22 (1.0)	454 (4.9)	10.2 (0.05)
Portugal	22 (1.1)	559 (4.1)	50 (1.1)	522 (2.8)	28 (1.3)	487 (4.1)	10.0 (0.06)
Lithuania	21 (1.1)	564 (3.6)	45 (1.1)	534 (3.2)	34 (1.5)	516 (4.1)	9.9 (0.07)
Morocco	21 (0.9)	440 (4.2)	43 (0.7)	393 (3.2)	35 (0.8)	376 (2.8)	10.0 (0.05)
Finland	18 (0.8)	588 (3.5)	50 (0.9)	554 (3.2)	31 (1.1)	508 (4.0)	9.9 (0.04)
France	13 (0.6)	539 (4.6)	46 (1.3)	498 (3.1)	41 (1.5)	462 (3.1)	9.4 (0.06)
Lebanon	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-
<b>International Average</b>	<b>22 (0.3)</b>	<b>531 (1.3)</b>	<b>46 (0.3)</b>	<b>496 (1.1)</b>	<b>32 (0.4)</b>	<b>469 (1.3)</b>	
<b>Benchmarking Participants</b>							
Moscow City, Russian Fed.	24 (1.2)	584 (4.5)	49 (1.0)	568 (3.0)	27 (1.2)	551 (4.2)	10.1 (0.06)

A dash (-) indicates comparable data not available.

An "r" indicates data are available for at least 70% but less than 85% of the students.