

Exhibit 5.3.4: Disorderly Behavior During Science Lessons

About the Scale

Students were scored according to their responses to six statements on the *Disorderly Behavior During Science Lessons* scale. Cut scores divide the scale into three categories. Students who reported disorderly behavior in **Few or No Lessons** had a score at or above the cut score corresponding to reporting that three of the six situations “never” happened in their science lessons and the other three happened in “some lessons,” on average. Students who reported disorderly behavior in **Most Lessons** had a score at or below the cut score corresponding to reporting that three of the six situations happened in “every or almost every lesson” and the other three happened in “about half the lessons,” on average. All other students reported disorderly behavior in **Some Lessons**. 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.

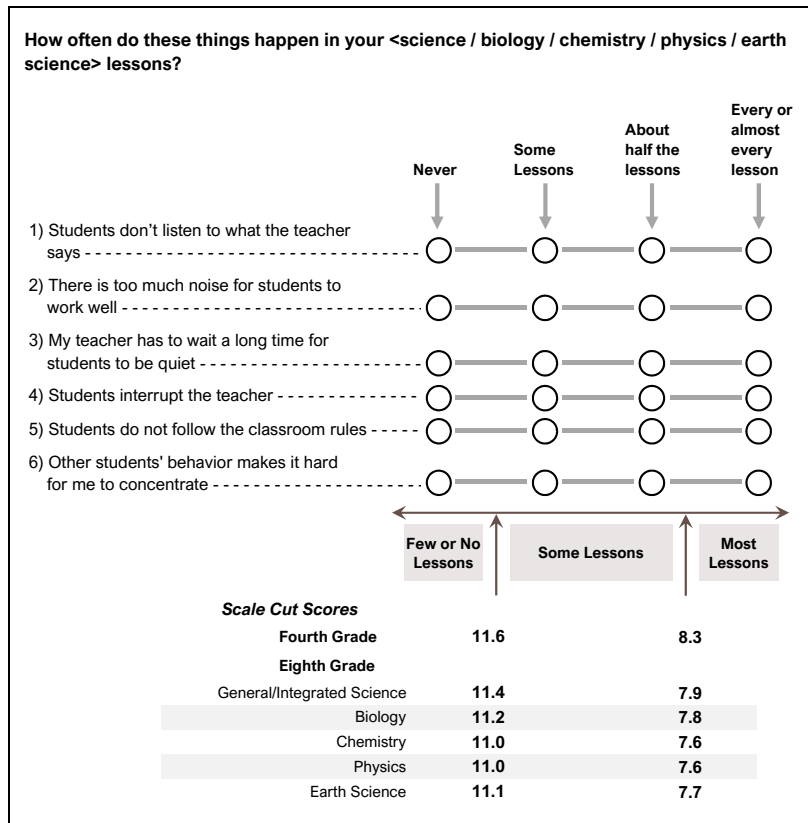


Exhibit 5.3.5: Disorderly Behavior During Science Lessons

Country	Few or No Lessons		Some Lessons		Most Lessons		Average Scale Score
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	
Albania	47 (2.4)	505 (4.9)	38 (1.8)	496 (5.8)	15 (1.5)	469 (7.1)	11.2 (0.13)
Armenia	42 (1.8)	470 (3.0)	43 (1.3)	461 (3.1)	15 (0.9)	438 (3.5)	10.9 (0.09)
Australia	9 (0.7)	574 (5.8)	70 (1.0)	558 (2.6)	22 (1.1)	528 (4.4)	9.5 (0.05)
Azerbaijan	29 (1.4)	441 (4.2)	53 (1.1)	427 (3.3)	19 (0.9)	408 (5.2)	10.3 (0.07)
Bahrain	28 (1.6)	505 (5.2)	49 (1.2)	479 (5.0)	23 (1.2)	450 (4.6)	10.1 (0.09)
Belgium (Flemish)	10 (0.7)	510 (5.0)	76 (0.9)	493 (2.5)	14 (0.9)	466 (4.8)	9.8 (0.05)
Belgium (French)	11 (0.7)	501 (5.2)	67 (1.0)	487 (3.0)	21 (1.0)	461 (3.6)	9.5 (0.05)
Bosnia & Herzegovina	18 (1.8)	465 (4.7)	54 (1.5)	461 (3.8)	29 (1.9)	435 (6.1)	9.5 (0.11)
Brazil	7 (0.6)	444 (8.3)	58 (0.9)	442 (3.9)	36 (1.1)	434 (4.8)	9.0 (0.04)
Bulgaria	48 (2.5)	546 (6.2)	45 (2.0)	526 (7.0)	7 (0.8)	457 (13.1)	11.3 (0.11)
Canada	12 (0.5)	540 (3.7)	68 (0.8)	527 (2.3)	20 (0.9)	509 (2.9)	9.7 (0.04)
Chile	10 (0.8)	495 (5.3)	58 (1.0)	491 (3.1)	33 (1.1)	466 (3.0)	9.1 (0.06)
Chinese Taipei	21 (1.2)	565 (3.8)	57 (1.1)	576 (2.2)	22 (1.2)	576 (2.7)	9.9 (0.07)
Cyprus	13 (1.0)	504 (5.5)	62 (1.4)	492 (3.0)	26 (1.3)	478 (4.3)	9.5 (0.06)
Czech Republic	13 (0.9)	537 (4.0)	64 (1.1)	532 (2.6)	23 (1.2)	508 (3.5)	9.6 (0.06)
Denmark	12 (0.9)	538 (4.6)	78 (0.8)	524 (2.8)	10 (0.7)	513 (4.6)	10.0 (0.05)
England	13 (1.1)	578 (6.3)	68 (1.1)	563 (3.1)	19 (1.2)	539 (4.9)	9.7 (0.07)
Finland	21 (1.2)	558 (3.3)	70 (1.0)	546 (2.9)	9 (0.6)	514 (7.0)	10.4 (0.05)
France	15 (1.0)	508 (4.6)	65 (1.2)	494 (3.5)	20 (1.1)	471 (4.7)	9.8 (0.05)
Georgia	25 (1.5)	482 (4.8)	57 (1.4)	471 (3.3)	18 (1.0)	446 (5.5)	10.1 (0.07)
Germany	11 (0.8)	530 (5.8)	73 (1.0)	523 (3.0)	16 (0.9)	496 (5.2)	9.7 (0.05)
Hong Kong SAR	31 (1.3)	547 (3.8)	54 (1.0)	548 (4.8)	15 (1.2)	536 (6.8)	10.6 (0.08)
Hungary	22 (1.3)	545 (4.4)	61 (1.1)	529 (3.2)	17 (1.1)	497 (6.1)	10.1 (0.06)
Iran, Islamic Rep. of	20 (1.2)	444 (6.3)	54 (1.1)	440 (5.1)	27 (1.3)	424 (5.5)	9.7 (0.08)
Ireland	19 (1.3)	546 (4.3)	67 (1.3)	536 (3.4)	14 (1.3)	499 (6.0)	10.1 (0.07)
Italy	15 (1.0)	518 (5.7)	68 (1.1)	514 (2.6)	17 (1.0)	502 (4.1)	9.8 (0.05)
Japan	51 (1.7)	561 (2.7)	43 (1.5)	556 (3.0)	6 (0.5)	522 (7.8)	11.4 (0.07)
Jordan	31 (2.5)	447 (7.7)	45 (1.8)	413 (5.8)	24 (1.5)	405 (5.2)	10.2 (0.13)
Kazakhstan	35 (1.3)	483 (4.3)	49 (1.1)	467 (3.9)	17 (0.8)	457 (4.7)	10.6 (0.06)
Korea, Rep. of	29 (1.7)	586 (2.9)	60 (1.4)	584 (2.6)	10 (1.0)	574 (6.5)	10.5 (0.07)
Kosovo	32 (1.5)	417 (4.9)	49 (1.4)	407 (3.7)	19 (1.0)	384 (4.9)	10.4 (0.07)
Kuwait	21 (1.5)	406 (7.5)	55 (1.3)	388 (6.2)	24 (1.2)	366 (8.0)	9.8 (0.08)
Latvia	13 (1.2)	539 (4.9)	64 (1.1)	532 (3.2)	23 (1.1)	506 (4.8)	9.6 (0.06)
Lithuania	18 (1.2)	557 (4.4)	65 (1.1)	541 (3.0)	17 (1.1)	514 (4.5)	10.0 (0.06)
Macao SAR	24 (0.5)	548 (2.5)	61 (0.6)	533 (1.6)	16 (0.4)	527 (3.6)	10.2 (0.02)
Montenegro	21 (0.9)	486 (3.1)	52 (0.9)	466 (2.5)	27 (1.0)	446 (3.2)	9.7 (0.05)
Morocco	27 (2.1)	433 (10.4)	57 (1.9)	382 (5.4)	16 (0.9)	361 (5.5)	10.3 (0.09)
Netherlands	13 (1.1)	523 (5.1)	76 (1.2)	521 (3.1)	11 (1.1)	496 (5.2)	10.0 (0.06)
New Zealand	9 (0.5)	546 (7.2)	64 (1.1)	527 (2.9)	27 (1.1)	500 (3.2)	9.4 (0.04)
North Macedonia	32 (1.4)	463 (4.5)	46 (1.2)	452 (4.7)	22 (1.1)	418 (4.9)	10.3 (0.08)
Norway (5)	12 (1.0)	539 (4.9)	75 (1.1)	535 (2.7)	13 (0.9)	519 (4.7)	10.0 (0.05)
Oman	20 (1.0)	471 (8.5)	53 (0.9)	433 (4.0)	27 (0.9)	425 (4.5)	9.7 (0.05)
Poland	19 (1.2)	555 (3.7)	65 (1.1)	554 (2.5)	16 (0.9)	533 (4.2)	10.0 (0.06)
Portugal	15 (1.1)	527 (3.9)	66 (1.1)	516 (2.6)	19 (1.2)	487 (3.9)	9.8 (0.06)
Qatar	24 (0.9)	485 (4.7)	53 (0.8)	479 (4.5)	23 (1.0)	464 (5.2)	10.0 (0.05)
Romania	25 (1.7)	540 (5.3)	55 (1.5)	534 (5.1)	20 (1.4)	520 (5.6)	10.1 (0.10)
Saudi Arabia	30 (1.3)	461 (5.5)	46 (1.1)	432 (4.8)	24 (1.0)	422 (4.1)	10.1 (0.07)
Serbia	23 (1.6)	519 (6.1)	56 (1.4)	515 (3.5)	21 (1.3)	494 (3.5)	10.1 (0.08)
Slovak Republic	17 (1.7)	521 (11.5)	63 (1.5)	526 (4.1)	19 (1.3)	512 (5.9)	9.9 (0.08)
Slovenia	14 (1.0)	546 (4.0)	66 (1.0)	533 (2.4)	19 (0.9)	502 (3.6)	9.7 (0.05)
South Africa (5)	11 (0.8)	321 (11.7)	65 (1.0)	299 (5.8)	25 (0.9)	323 (6.9)	9.4 (0.05)
Spain	7 (0.6)	520 (4.1)	68 (0.9)	509 (1.9)	25 (1.0)	496 (3.1)	9.3 (0.04)
Sweden	17 (1.3)	549 (4.9)	70 (1.2)	535 (2.7)	13 (1.3)	516 (8.4)	10.1 (0.08)
Türkiye (5)	18 (1.1)	583 (4.9)	62 (0.9)	569 (3.7)	20 (1.1)	562 (5.2)	9.8 (0.06)
United Arab Emirates	25 (0.6)	529 (2.5)	53 (0.5)	502 (1.9)	22 (0.5)	469 (3.3)	10.1 (0.03)
United States	14 (0.7)	554 (4.6)	63 (0.7)	543 (3.1)	23 (0.9)	513 (3.6)	9.6 (0.05)
Uzbekistan	39 (1.5)	439 (3.6)	42 (1.2)	404 (3.8)	19 (0.9)	387 (4.3)	10.7 (0.08)
International Average	21 (0.2)	510 (0.7)	59 (0.2)	497 (0.5)	20 (0.1)	476 (0.7)	
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Benchmarking Participants							
Ontario, Canada	10 (0.7)	537 (5.4)	68 (1.3)	533 (3.6)	23 (1.5)	520 (4.3)	9.5 (0.07)
Quebec, Canada	15 (1.1)	524 (4.5)	69 (1.0)	511 (3.0)	16 (1.2)	491 (4.5)	9.9 (0.06)
Abu Dhabi, UAE	18 (0.9)	492 (5.1)	56 (0.8)	455 (3.0)	26 (0.8)	428 (4.8)	9.6 (0.05)
Dubai, UAE	25 (1.0)	580 (2.8)	57 (1.0)	568 (2.0)	18 (0.8)	540 (4.1)	10.2 (0.05)
Sharjah, UAE	32 (1.9)	532 (4.8)	49 (1.1)	504 (3.6)	19 (1.3)	481 (6.9)	10.4 (0.10)

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.

A dash (-) indicates comparable data not available.

Exhibit 5.3.6: Disorderly Behavior During Science Lessons

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 5.3.6a: Disorderly Behavior in General/Integrated Science Lessons

Country	Few or No Lessons		Some Lessons		Most Lessons		Average Scale Score
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	
Australia	12 (0.7)	545 (5.8)	67 (0.9)	528 (3.1)	20 (1.0)	508 (3.9)	9.3 (0.05)
Bahrain	31 (1.1)	486 (3.7)	51 (0.9)	458 (3.2)	18 (1.0)	423 (5.3)	10.0 (0.06)
Brazil	10 (0.6)	439 (5.9)	59 (0.7)	433 (3.4)	31 (0.8)	415 (2.9)	8.9 (0.04)
Chile	11 (0.8)	469 (4.8)	67 (1.1)	462 (2.9)	22 (1.1)	450 (3.7)	9.2 (0.05)
Chinese Taipei	41 (1.7)	563 (3.5)	50 (1.3)	579 (3.0)	10 (1.0)	583 (5.2)	10.7 (0.08)
England	22 (1.1)	555 (5.9)	66 (1.0)	538 (4.5)	11 (0.8)	510 (7.7)	10.0 (0.05)
Hong Kong SAR	34 (1.7)	538 (5.3)	56 (1.4)	527 (5.2)	9 (0.9)	519 (8.2)	10.5 (0.07)
Iran, Islamic Rep. of	22 (1.0)	437 (5.0)	59 (0.9)	421 (4.0)	19 (0.7)	397 (4.5)	9.6 (0.05)
Ireland	38 (1.6)	540 (2.6)	53 (1.3)	534 (4.7)	9 (0.7)	512 (9.2)	10.5 (0.07)
Israel	20 (1.1)	488 (6.8)	59 (1.0)	487 (3.7)	21 (1.1)	479 (5.3)	9.6 (0.07)
Italy	25 (1.4)	505 (4.3)	64 (1.2)	503 (3.4)	11 (0.8)	496 (4.8)	10.1 (0.06)
Japan	64 (2.3)	561 (4.3)	33 (2.0)	556 (3.0)	3 (0.5)	533 (7.6)	11.5 (0.08)
Jordan	29 (1.2)	445 (4.6)	49 (1.0)	417 (3.9)	22 (0.8)	392 (5.7)	9.8 (0.06)
Korea, Rep. of	46 (1.4)	541 (2.8)	47 (1.2)	549 (3.1)	7 (0.7)	557 (6.2)	10.9 (0.06)
Kuwait	31 (1.3)	440 (6.1)	51 (1.1)	429 (6.2)	17 (1.1)	397 (9.0)	10.0 (0.07)
Malaysia	26 (1.0)	456 (4.1)	64 (0.8)	422 (3.6)	9 (0.5)	384 (5.8)	10.1 (0.05)
Norway (9)	22 (1.3)	503 (4.5)	68 (1.2)	497 (2.6)	10 (0.8)	477 (5.3)	10.1 (0.06)
Oman	23 (1.0)	490 (3.7)	58 (0.9)	460 (3.1)	19 (0.7)	443 (3.7)	9.6 (0.05)
Palestinian Nat'l Auth.	29 (1.0)	426 (3.7)	48 (0.9)	396 (3.9)	23 (0.8)	383 (3.5)	9.8 (0.05)
Qatar	30 (1.3)	501 (6.8)	51 (1.0)	489 (4.8)	19 (1.1)	460 (5.4)	9.9 (0.07)
Saudi Arabia	37 (1.2)	447 (4.0)	45 (1.0)	429 (3.8)	18 (0.8)	393 (4.9)	10.2 (0.06)
South Africa (9)	13 (0.7)	389 (6.7)	67 (0.8)	357 (4.2)	20 (0.9)	362 (5.7)	9.3 (0.05)
Türkiye	21 (1.2)	544 (5.4)	60 (1.0)	530 (4.0)	19 (1.1)	519 (5.3)	9.7 (0.07)
United Arab Emirates	33 (0.7)	516 (3.0)	48 (0.5)	498 (2.1)	18 (0.4)	450 (2.9)	10.1 (0.03)
United States	26 (1.3)	534 (4.6)	60 (1.0)	516 (4.2)	14 (0.8)	497 (4.2)	10.0 (0.06)
International Average	28 (0.2)	494 (1.0)	56 (0.2)	481 (0.8)	16 (0.2)	462 (1.1)	
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Benchmarking Participants							
Abu Dhabi, UAE	27 (1.2)	488 (5.1)	51 (0.9)	459 (3.5)	22 (0.8)	416 (4.5)	9.7 (0.05)
Dubai, UAE	32 (1.2)	572 (4.0)	54 (1.1)	550 (3.2)	14 (0.5)	514 (5.6)	10.2 (0.05)
Sharjah, UAE	40 (2.3)	516 (7.6)	43 (1.5)	505 (4.9)	17 (1.1)	467 (5.3)	10.4 (0.11)

Separate Science Results

Exhibit 5.3.6b: Disorderly Behavior in Biology Lessons

Country	Few or No Lessons		Some Lessons		Most Lessons		Average Scale Score
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	
Austria	29 (1.8)	523 (4.1)	58 (1.5)	510 (3.0)	12 (1.1)	510 (4.9)	10.0 (0.08)
Azerbaijan	33 (1.2)	432 (3.8)	51 (1.0)	416 (3.5)	17 (0.8)	410 (4.3)	10.0 (0.06)
Cote d'Ivoire	26 (1.5)	182 (9.6)	63 (1.2)	171 (6.8)	12 (0.7)	177 (8.3)	9.8 (0.07)
Cyprus	22 (1.0)	487 (4.2)	59 (0.9)	468 (3.6)	19 (0.8)	464 (4.1)	9.5 (0.05)
Czech Republic	26 (1.2)	541 (3.1)	63 (0.9)	528 (2.0)	11 (0.9)	515 (3.8)	9.9 (0.06)
Finland	29 (1.3)	554 (4.0)	63 (1.2)	537 (3.3)	8 (0.6)	523 (6.4)	10.2 (0.05)
France	33 (1.8)	502 (3.5)	55 (1.3)	493 (3.1)	12 (1.2)	471 (7.5)	10.1 (0.09)
Georgia	30 (1.3)	464 (4.2)	57 (1.2)	454 (3.0)	13 (0.9)	438 (4.8)	10.0 (0.06)
Hungary	31 (1.7)	531 (3.7)	59 (1.3)	521 (4.0)	11 (0.9)	510 (6.3)	10.1 (0.08)
Kazakhstan	43 (1.3)	456 (3.7)	48 (1.1)	442 (3.4)	9 (0.6)	431 (7.3)	10.6 (0.06)
Lithuania	28 (1.3)	529 (4.1)	59 (1.0)	520 (3.2)	13 (0.9)	515 (4.7)	9.9 (0.07)
Morocco	23 (1.0)	339 (5.3)	57 (0.9)	326 (3.5)	20 (0.8)	325 (4.3)	9.5 (0.05)
Portugal	16 (1.2)	520 (3.7)	67 (1.0)	506 (2.6)	17 (1.1)	503 (4.2)	9.4 (0.07)
Romania	32 (1.7)	484 (4.1)	51 (1.4)	477 (3.7)	17 (1.0)	451 (8.4)	10.0 (0.08)
Sweden	22 (1.2)	539 (5.9)	67 (1.1)	534 (3.1)	11 (0.8)	523 (6.2)	9.9 (0.06)
Uzbekistan	42 (1.5)	412 (5.0)	44 (1.2)	397 (3.7)	14 (0.9)	375 (5.9)	10.4 (0.07)
International Average	29 (0.3)	468 (1.2)	58 (0.3)	456 (0.9)	14 (0.2)	446 (1.5)	
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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 5.3.6: Disorderly Behavior During Science Lessons

Separate Science Results

(Continued)

Exhibit 5.3.6c: Disorderly Behavior in Chemistry Lessons

Chemistry		Few or No Lessons		Some Lessons		Most Lessons		Average Scale Score
Country		Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	
Austria		34 (1.8)	525 (3.3)	54 (1.6)	513 (2.7)	11 (1.0)	497 (8.0)	10.0 (0.08)
Azerbaijan	r	39 (1.4)	434 (3.8)	45 (1.2)	416 (3.8)	17 (0.8)	405 (4.4)	9.9 (0.07)
Cote d'Ivoire		29 (1.5)	198 (12.3)	59 (1.2)	178 (7.8)	13 (0.6)	178 (7.9)	9.7 (0.06)
Cyprus	r	35 (1.2)	481 (3.7)	51 (1.0)	473 (3.7)	15 (0.7)	455 (5.3)	9.9 (0.05)
Czech Republic		32 (1.4)	537 (2.9)	59 (1.1)	530 (2.2)	10 (0.8)	508 (3.5)	10.0 (0.06)
Finland	r	33 (1.5)	555 (4.0)	59 (1.3)	540 (2.9)	7 (0.5)	508 (6.7)	10.1 (0.06)
France		34 (1.8)	503 (3.6)	52 (1.4)	494 (3.6)	14 (1.3)	470 (6.3)	9.9 (0.09)
Georgia		38 (1.3)	466 (4.5)	50 (1.1)	452 (2.5)	12 (0.7)	436 (4.8)	10.1 (0.06)
Hungary		38 (2.0)	536 (3.6)	53 (1.6)	520 (3.8)	10 (0.9)	491 (5.9)	10.2 (0.08)
Kazakhstan		49 (1.4)	458 (3.7)	43 (1.3)	447 (3.5)	8 (0.5)	429 (6.1)	10.7 (0.06)
Lithuania		37 (1.6)	529 (3.6)	54 (1.4)	522 (3.3)	10 (0.7)	498 (6.6)	10.1 (0.07)
Morocco	r	28 (1.0)	341 (4.1)	51 (0.9)	325 (3.6)	20 (0.9)	321 (4.2)	9.5 (0.06)
Portugal		19 (1.3)	515 (3.7)	65 (1.2)	508 (2.3)	16 (1.1)	500 (4.8)	9.4 (0.06)
Romania	r	38 (2.0)	486 (4.0)	46 (1.8)	475 (4.2)	16 (1.2)	454 (7.0)	10.0 (0.08)
Sweden	s	26 (1.4)	541 (6.0)	64 (1.2)	535 (3.6)	10 (1.0)	524 (6.2)	9.8 (0.07)
Uzbekistan		45 (1.6)	414 (4.7)	40 (1.4)	396 (3.9)	15 (1.0)	369 (5.4)	10.3 (0.08)
International Average		35 (0.4)	470 (1.2)	53 (0.3)	458 (1.0)	13 (0.2)	440 (1.5)	
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Exhibit 5.3.6d: Disorderly Behavior in Physics Lessons

Physics		Few or No Lessons		Some Lessons		Most Lessons		Average Scale Score
Country		Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	
Austria		32 (1.9)	525 (3.3)	55 (1.4)	514 (2.9)	12 (1.1)	498 (7.6)	9.9 (0.08)
Azerbaijan	r	41 (1.5)	434 (3.8)	42 (1.3)	414 (3.8)	17 (0.9)	403 (4.9)	10.0 (0.07)
Cote d'Ivoire		29 (1.5)	198 (12.5)	58 (1.3)	180 (7.9)	12 (0.7)	175 (7.2)	9.7 (0.06)
Cyprus	r	30 (1.0)	483 (3.8)	54 (0.9)	472 (4.0)	16 (0.7)	458 (4.6)	9.7 (0.04)
Czech Republic		35 (1.5)	538 (2.8)	56 (1.2)	528 (2.3)	9 (0.7)	509 (4.3)	10.1 (0.06)
Finland	r	34 (1.4)	558 (3.9)	58 (1.2)	541 (3.4)	8 (0.5)	510 (8.2)	10.2 (0.06)
France		34 (1.8)	503 (3.6)	52 (1.4)	494 (3.6)	14 (1.3)	470 (6.2)	9.9 (0.09)
Georgia	r	37 (1.4)	464 (4.7)	50 (1.3)	454 (2.9)	13 (0.7)	437 (5.2)	10.1 (0.06)
Hungary		38 (1.9)	532 (4.1)	52 (1.5)	521 (3.8)	10 (0.9)	500 (6.7)	10.2 (0.08)
Kazakhstan		51 (1.4)	458 (3.8)	41 (1.1)	447 (3.5)	7 (0.5)	429 (6.1)	10.7 (0.06)
Lithuania		37 (1.5)	530 (3.8)	53 (1.2)	520 (3.2)	10 (0.8)	509 (7.3)	10.1 (0.07)
Malta	r	35 (0.8)	536 (2.9)	51 (0.9)	507 (2.9)	13 (0.6)	473 (5.7)	9.9 (0.03)
Morocco		28 (1.1)	341 (4.4)	50 (0.8)	324 (3.7)	21 (0.9)	322 (4.2)	9.5 (0.06)
Portugal		19 (1.3)	515 (3.7)	65 (1.2)	508 (2.3)	16 (1.1)	500 (4.8)	9.4 (0.06)
Romania	r	39 (2.0)	490 (3.8)	46 (1.7)	471 (4.8)	16 (1.2)	453 (6.7)	10.0 (0.09)
Sweden	r	24 (1.4)	545 (5.9)	66 (1.3)	533 (3.1)	10 (0.8)	526 (6.8)	9.8 (0.06)
Uzbekistan		46 (1.4)	414 (4.5)	39 (1.1)	396 (3.8)	15 (0.8)	369 (5.0)	10.3 (0.07)
International Average		35 (0.4)	474 (1.2)	52 (0.3)	460 (0.9)	13 (0.2)	444 (1.5)	

Exhibit 5.3.6e: Disorderly Behavior in Earth Science Lessons

Earth Science		Few or No Lessons		Some Lessons		Most Lessons		Average Scale Score
Country		Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	
Austria		33 (1.8)	523 (3.5)	55 (1.5)	512 (3.0)	13 (1.3)	507 (6.1)	10.0 (0.09)
Azerbaijan	r	37 (1.3)	435 (4.1)	46 (1.1)	414 (3.5)	17 (0.8)	403 (4.7)	10.1 (0.06)
Cote d'Ivoire		28 (1.7)	201 (15.3)	60 (1.4)	177 (6.8)	12 (0.8)	181 (8.6)	9.8 (0.07)
Cyprus	r	22 (1.2)	470 (5.7)	55 (1.0)	466 (3.8)	23 (0.9)	469 (4.4)	9.4 (0.05)
Czech Republic		30 (1.4)	533 (2.8)	59 (1.1)	531 (2.1)	10 (0.8)	516 (4.5)	10.1 (0.06)
Finland	r	30 (1.3)	556 (3.4)	61 (1.2)	538 (3.3)	9 (0.5)	517 (6.5)	10.1 (0.05)
France		33 (1.8)	502 (3.5)	55 (1.3)	493 (3.1)	12 (1.2)	471 (7.5)	10.0 (0.09)
Georgia		33 (1.4)	464 (4.4)	53 (1.0)	455 (2.8)	14 (1.0)	435 (4.6)	10.1 (0.07)
Hungary		36 (1.8)	530 (3.8)	54 (1.3)	520 (3.7)	11 (1.0)	515 (7.9)	10.2 (0.08)
Kazakhstan		47 (1.4)	455 (3.9)	44 (1.1)	447 (3.5)	9 (0.7)	435 (6.6)	10.7 (0.06)
Lithuania		32 (1.4)	529 (4.2)	56 (1.1)	521 (3.2)	12 (0.8)	512 (5.7)	10.1 (0.07)
Morocco	r	26 (1.0)	341 (4.2)	54 (0.8)	326 (3.5)	20 (0.7)	323 (5.2)	9.6 (0.05)
Portugal		16 (1.2)	520 (3.7)	67 (1.0)	506 (2.6)	17 (1.1)	503 (4.2)	9.4 (0.07)
Uzbekistan	r	44 (1.5)	412 (4.9)	43 (1.3)	396 (3.8)	14 (0.9)	373 (4.9)	10.4 (0.07)
International Average		32 (0.4)	462 (1.5)	54 (0.3)	450 (1.0)	14 (0.2)	440 (1.6)	
Malta	x	26 (1.0)	536 (5.3)	55 (1.1)	501 (3.9)	19 (0.8)	473 (7.8)	9.7 (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.