## TIMSS

TIMSS Mathematics

**8th** Grade

## Exhibit 10.2: Students' Views on Engaging Teaching in

**Mathematics Lessons** 

Reported by Students

Students were scored according to their degree of agreement with ten statements on the Students' Views on Engaging Teaching in Mathematics Lessons scale. Students who experienced Very Engaging Teaching in mathematics lessons had a score on the scale of at least 10.4, which corresponds to their "agreeing a lot" with five of the ten statements and "agreeing a little" with the other five, on

		natics lessons					
Country	Very E	Very Engaging		Engaging		Less than	
	Teaching		Teaching		Engaging Teaching		Average Scale Score
	Percent Average		Percent Average		Percent Average		
	of Students	Achievement	of Students	Achievement	of Students	Achievement	
rdan	68 (1.2)	394 (3.3)	25 (0.9)	377 (4.3)	7 (0.5)	361 (6.1)	11.1 (0.05)
ypt	65 (1.4)	404 (4.1)	27 (1.0)	378 (5.9)	8 (0.6)	369 (8.0)	11.0 (0.07)
banon	64 (1.6)	450 (3.7)	25 (1.2)	436 (5.3)	11 (0.9)	426 (6.1)	11.0 (0.08)
orocco	62 (1.3)	390 (2.3)	29 (0.8)	376 (3.0)	10 (0.7)	384 (4.4)	10.7 (0.05)
uth Africa (9)	61 (1.2)	378 (4.7)	31 (0.9)	367 (5.3)	8 (0.6)	376 (7.1)	10.7 (0.05)
rkey	60 (1.4)	470 (5.1)	31 (1.0)	438 (5.4)	10 (0.8)	445 (8.1)	10.6 (0.06)
tswana (9)	60 (1.4)	408 (1.8)	31 (0.9)	374 (3.5)	10 (0.9)	378 (6.3)	10.7 (0.06)
nan	59 (1.2)	416 (2.7)	34 (1.0)	391 (3.1)	8 (0.5)	370 (5.5)	10.6 (0.04)
n, Islamic Rep. of	55 (1.6)	442 (4.8)	33 (1.0)	435 (5.3)	12 (0.9)	418 (7.1)	10.5 (0.07)
eorgia	52 (1.2)	467 (3.6)	40 (0.9)	444 (4.3)	8 (0.7)	425 (9.2)	10.6 (0.05)
udi Arabia	50 (1.7)	376 (4.8)	35 (1.1)	366 (5.5)	15 (1.0)	349 (6.4)	10.2 (0.07)
zakhstan	49 (1.7)	542 (5.6)	47 (1.6)	516 (6.2)	4 (0.4)	499 (8.4)	10.6 (0.06)
wait	49 (1.6)	398 (5.3)	37 (1.1)	391 (5.5)	15 (1.0)	384 (9.3)	10.2 (0.06)
ile	48 (1.8)	435 (3.9)	33 (1.0)	425 (3.7)	19 (1.5)	415 (5.6)	10.1 (0.09)
nada	46 (1.2)	534 (2.2)	40 (0.7)	530 (2.5)	14 (1.0)	509 (3.9)	10.2 (0.05)
ael	45 (1.3)	513 (5.3)	36 (0.8)	515 (4.2)	20 (0.9)	504 (4.9)	10.0 (0.06)
nited Arab Emirates	45 (0.9)	484 (2.6)	41 (0.7)	455 (2.4)	14 (0.6)	438 (3.7)	10.2 (0.04)
ssian Federation	44 (1.2)	548 (5.5)	46 (1.1)	533 (4.7)	11 (0.8)	519 (5.6)	10.2 (0.05)
ar	43 (1.3)	459 (3.7)	37 (0.8)	432 (3.5)	19 (1.0)	406 (4.4)	10.0 (0.06)
ailand	43 (1.1)	431 (4.8)	48 (0.9)	432 (5.1)	9 (0.6)	430 (9.4)	10.1 (0.04)
ited States	43 (1.2)	530 (3.5)	36 (0.7)	515 (3.3)	21 (1.0)	504 (4.0)	10.0 (0.06)
hrain	42 (1.5)	466 (2.3)	37 (1.0)	452 (2.2)	21 (1.2)	438 (2.9)	9.9 (0.07)
alta	41 (0.7)	505 (2.1)	37 (0.8)	496 (2.2)	22 (0.6)	478 (2.8)	9.8 (0.03)
laysia	40 (1.2)	472 (4.1)	50 (0.9)	466 (3.9)	11 (0.8)	438 (5.9)	10.0 (0.05)
huania	39 (1.7)	523 (3.7)	45 (1.1)	505 (3.1)	17 (1.5)	502 (4.3)	9.9 (0.07)
gland	38 (1.7)	532 (5.4)	42 (1.0)	518 (4.8)	20 (1.4)	501 (6.0)	9.8 (0.08)
and	37 (1.4)	528 (3.3)	41 (1.0)	523 (3.4)	22 (1.1)	517 (3.8)	9.7 (0.06)
ingary	34 (1.6)	530 (6.5)	46 (1.1)	507 (3.9)	20 (1.3)	505 (5.3)	9.6 (0.07)
stralia	34 (1.3)	521 (3.7)	42 (0.7)	506 (3.2)	24 (1.3)	485 (4.6)	9.5 (0.07)
ngapore	33 (1.0)	633 (3.6)	52 (0.8)	620 (3.4)	16 (0.8)	596 (6.3)	9.7 (0.04)
orway (9)	33 (1.3)	526 (3.0)	44 (1.0)	510 (2.8)	23 (1.4)	496 (3.1)	9.5 (0.06)
w Zealand	32 (1.5)	506 (4.9)	44 (0.9)	495 (3.9)	24 (1.3)	475 (3.5)	9.5 (0.07)
ly	31 (1.3)	500 (3.5)	50 (1.0)	495 (3.0)	19 (1.2)	482 (4.6)	9.6 (0.05)
eden	31 (1.6)	517 (3.5)	49 (1.2)	500 (3.0)	20 (1.5)	481 (4.1)	9.5 (0.07)
ong Kong SAR	26 (1.3)	606 (4.9)	49 (0.9)	595 (4.3)	24 (1.5)	581 (8.1)	9.3 (0.08)
inese Taipei	23 (1.2)	629 (3.3)	52 (1.0)	602 (2.6)	25 (1.6)	565 (5.2)	9.2 (0.07)
venia	20 (1.0)	538 (4.8)	59 (1.3)	515 (2.3)	21 (1.2)	500 (3.1)	9.2 (0.05)
pan	10 (0.7)	610 (5.0)	50 (1.2)	594 (2.7)	40 (1.6)	572 (3.0)	8.5 (0.05)
rea, Rep. of	8 (0.5)	642 (5.0)	52 (1.2)	614 (3.2)	40 (1.4)	589 (2.7)	8.4 (0.04)
ternational Avg.	43 (0.2)	494 (0.7)	41 (0.2)	478 (0.6)	17 (0.2)	464 (0.9)	

This TIMSS questionnaire scale was established in 2015 based on the combined response distribution of all countries that participated in TIMSS 2015. 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.



## **Exhibit 10.2: Students' Views on Engaging Teaching in Mathematics Lessons (Continued)**

Country	Very Engaging Teaching		_	aging ching	Less than Engaging Teaching		Average
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Scale Score
nchmarking Participants							
Ontario, Canada	53 (1.7)	529 (2.6)	35 (1.1)	522 (3.5)	12 (1.1)	501 (4.9)	10.5 (0.07
Dubai, UAE	53 (1.3)	524 (2.9)	35 (1.2)	504 (3.0)	12 (0.8)	486 (5.5)	10.4 (0.05
Buenos Aires, Argentina	51 (1.7)	398 (5.4)	32 (1.2)	398 (4.9)	18 (1.4)	394 (7.9)	10.2 (0.09
Norway (8)	40 (1.3)	495 (2.6)	44 (0.9)	487 (2.4)	16 (0.9)	470 (3.6)	9.9 (0.05
Florida, US	40 (2.5)	504 (8.5)	38 (1.4)	491 (6.6)	23 (2.1)	486 (6.9)	9.9 (0.13
Abu Dhabi, UAE	40 (2.0)	459 (7.2)	44 (1.3)	438 (4.9)	16 (1.2)	419 (7.2)	10.0 (0.08
Ouebec, Canada	33 (1.6)	554 (3.9)	51 (1.3)	547 (3.6)	16 (1.7)	524 (8.0)	9.7 (0.07

How much do you agree with these statements about your <u>mathematics lessons</u> ?								
	Agree a lot	Agree a little	Disagree a little	Disagree a lot				
I know what my teacher expects me to do								
2) My teacher is easy to understand				-0				
3) I am interested in what my teacher says	🔾			-0				
4) My teacher gives me interesting things to do				-0				
5) My teacher has clear answers to my questions				-0				
6) My teacher is good at explaining mathematics				-0				
7) My teacher lets me show what I have learned				-0				
8) My teacher does a variety of things to help us learn				-0				
9) My teacher tells me how to do better when I make a mistake				-0				
10) My teacher listens to what I have to say								
	Very Engaging Teaching 10	Engaging Teaching	Less than Enga Teaching	ging				

