

Exhibit 9.14: Teaching Limited by Student Needs

Reported by Teachers

Students were scored according to their teachers' responses concerning six needs on the *Teaching Limited by Student Needs* scale. Students with teachers who felt **Not Limited** by student needs had a score on the scale of at least 11.4, which corresponds to their teachers feeling "not at all" limited by three of the six needs and to "some" extent limited by the other three needs, on average. Students with teachers who felt **Very Limited** by student needs had a score no higher than 7.4, which corresponds to their teachers reporting feeling limited "a lot" by three of the six needs and to "some" extent limited by the other three needs, on average. All other students had teachers who felt **Somewhat Limited** by student needs.

Country	Not Limited		Somewhat Limited		Very Limited		Average Scale Score
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	
Japan	76 (3.4)	575 (2.1)	24 (3.4)	558 (3.0)	0 (0.0)	~ ~	12.5 (0.15)
Slovenia	46 (2.3)	558 (3.1)	50 (2.3)	546 (2.8)	4 (0.9)	543 (6.5)	11.0 (0.10)
Norway (9)	45 (4.0)	519 (4.5)	52 (4.0)	504 (3.2)	3 (1.2)	475 (10.2)	10.8 (0.14)
Singapore	44 (2.7)	629 (4.1)	55 (2.6)	572 (5.8)	1 (0.5)	~ ~	11.0 (0.09)
Hungary	42 (2.5)	551 (3.3)	50 (2.2)	512 (3.9)	8 (1.6)	481 (11.0)	10.8 (0.13)
England	r 42 (3.0)	575 (4.4)	54 (2.9)	517 (5.3)	5 (1.0)	466 (17.1)	10.7 (0.14)
Ireland	41 (3.2)	546 (3.4)	54 (3.3)	533 (3.7)	5 (1.3)	485 (12.9)	10.7 (0.11)
Kazakhstan	41 (3.1)	542 (6.2)	51 (2.8)	526 (5.1)	8 (1.4)	529 (14.1)	10.6 (0.16)
United Arab Emirates	r 41 (2.4)	514 (4.6)	55 (2.4)	454 (4.2)	4 (0.9)	443 (19.8)	10.8 (0.09)
Malta	40 (0.5)	506 (6.2)	52 (0.5)	468 (1.9)	8 (0.2)	423 (4.7)	10.6 (0.02)
Hong Kong SAR	38 (5.0)	565 (5.5)	58 (4.9)	533 (5.3)	4 (1.7)	531 (31.3)	10.6 (0.17)
New Zealand	37 (2.9)	552 (5.5)	58 (3.1)	502 (4.7)	5 (1.4)	419 (18.7)	10.5 (0.10)
Sweden	35 (3.6)	537 (5.3)	62 (3.5)	516 (4.3)	3 (1.1)	489 (17.3)	10.6 (0.15)
Australia	r 33 (3.1)	540 (5.1)	61 (3.0)	507 (3.3)	6 (1.5)	467 (10.9)	10.5 (0.15)
Russian Federation	30 (2.3)	554 (6.3)	59 (2.9)	540 (4.7)	10 (1.4)	540 (6.2)	10.0 (0.08)
Canada	r 30 (3.4)	541 (5.2)	64 (3.9)	523 (3.0)	7 (1.6)	505 (7.9)	10.1 (0.13)
Chinese Taipei	30 (3.4)	593 (4.7)	60 (3.8)	562 (2.7)	10 (2.3)	547 (7.3)	10.0 (0.15)
Lebanon	29 (3.9)	393 (8.3)	67 (4.0)	399 (6.8)	4 (1.1)	415 (25.6)	10.1 (0.12)
Lithuania	26 (2.3)	536 (4.4)	63 (2.3)	516 (3.1)	10 (1.3)	496 (6.2)	10.0 (0.10)
Israel	25 (2.5)	553 (9.9)	57 (3.2)	503 (5.5)	18 (2.4)	462 (9.9)	9.7 (0.12)
Qatar	25 (3.0)	506 (6.2)	67 (3.3)	444 (5.5)	8 (2.0)	398 (15.8)	10.1 (0.11)
Italy	24 (3.4)	508 (6.1)	65 (3.9)	495 (3.2)	11 (2.4)	495 (11.2)	10.0 (0.13)
Oman	22 (3.0)	473 (5.0)	58 (3.5)	454 (4.0)	20 (2.1)	439 (6.9)	9.6 (0.13)
Korea, Rep. of	22 (3.6)	561 (5.2)	64 (3.7)	555 (2.5)	14 (2.5)	548 (4.0)	9.8 (0.17)
Thailand	21 (3.1)	485 (8.0)	74 (2.9)	450 (5.1)	5 (1.8)	424 (17.0)	10.0 (0.12)
Malaysia	20 (2.6)	522 (7.0)	72 (3.0)	460 (5.5)	8 (2.1)	414 (21.6)	9.8 (0.11)
Georgia	19 (1.5)	453 (4.1)	76 (1.7)	442 (3.4)	6 (1.1)	438 (7.0)	9.8 (0.07)
Saudi Arabia	19 (3.2)	420 (13.9)	71 (3.9)	390 (5.2)	10 (2.5)	396 (9.2)	9.5 (0.13)
United States	r 18 (2.2)	556 (6.6)	74 (2.4)	532 (3.4)	9 (1.5)	493 (13.7)	9.7 (0.10)
Kuwait	18 (2.5)	426 (15.6)	75 (3.1)	406 (6.4)	8 (2.0)	400 (10.4)	9.8 (0.12)
Bahrain	15 (2.0)	503 (11.8)	73 (3.0)	458 (3.3)	12 (2.4)	453 (8.2)	9.6 (0.10)
Egypt	14 (2.6)	382 (12.0)	71 (3.6)	372 (5.1)	15 (2.6)	353 (14.4)	9.3 (0.12)
Iran, Islamic Rep. of	13 (2.3)	490 (12.4)	65 (3.7)	456 (4.8)	22 (2.9)	440 (7.6)	9.0 (0.12)
Chile	12 (2.8)	502 (12.7)	67 (4.5)	462 (4.5)	21 (3.7)	413 (5.5)	8.9 (0.14)
Jordan	12 (2.4)	469 (9.6)	76 (3.4)	424 (3.7)	12 (2.4)	400 (9.9)	9.4 (0.11)
Botswana (9)	11 (2.7)	413 (12.1)	79 (3.7)	392 (3.4)	9 (2.7)	382 (8.4)	9.4 (0.12)
South Africa (9)	11 (2.0)	410 (24.2)	72 (3.0)	353 (7.0)	17 (2.5)	346 (11.3)	9.2 (0.10)
Turkey	11 (2.2)	542 (11.3)	64 (3.5)	497 (4.8)	25 (2.8)	462 (6.4)	8.9 (0.12)
Morocco	8 (1.1)	425 (8.7)	68 (2.1)	393 (2.8)	24 (2.0)	384 (3.2)	8.8 (0.07)
International Avg.	28 (0.5)	511 (1.4)	62 (0.5)	480 (0.7)	10 (0.3)	454 (2.2)	

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.

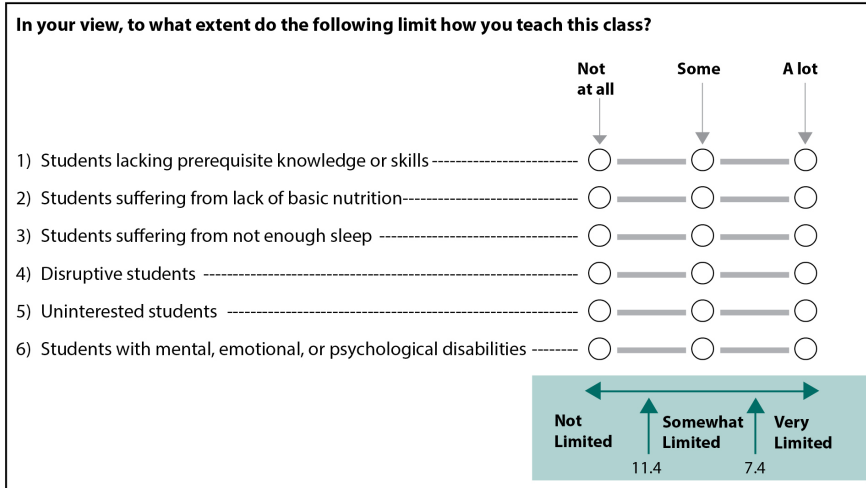
A tilde (~) indicates insufficient data to report achievement.

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 less than 50% of students.

Exhibit 9.14: Teaching Limited by Student Needs (Continued)

Country	Not Limited		Somewhat Limited		Very Limited		Average Scale Score	
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement		
Benchmarking Participants								
Dubai, UAE	r	59 (2.2)	544 (3.9)	40 (2.1)	491 (5.4)	1 (0.6)	~ ~	11.7 (0.09)
Norway (8)		37 (3.3)	499 (3.4)	59 (3.6)	488 (2.9)	4 (1.2)	449 (14.2)	10.7 (0.15)
Quebec, Canada		36 (5.0)	540 (10.8)	56 (6.1)	521 (6.5)	8 (3.0)	523 (12.6)	10.3 (0.22)
Abu Dhabi, UAE	r	35 (4.2)	487 (12.2)	60 (4.5)	436 (6.2)	5 (2.0)	438 (38.7)	10.3 (0.20)
Ontario, Canada	r	25 (4.2)	540 (4.0)	68 (4.4)	524 (3.3)	7 (1.9)	491 (6.6)	10.0 (0.16)
Florida, US	s	23 (7.2)	529 (23.7)	64 (6.4)	521 (9.2)	13 (4.3)	486 (20.0)	9.7 (0.27)
Buenos Aires, Argentina		x x	x x	x x	x x	x x	x x	x x



SOURCE: IEA's Trends in International Mathematics and Science Study – TIMSS 2015