

TIMSS & PIRLS International Study Center

Lynch School of Education, Boston College

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## Exhibit 9.13: 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 11.0, 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 6.9, which corresponds to their teachers reporting feeling limited "a lot" by three of the six needs and to "some" extent limited by average. All other students had teachers who felt **Somewhat Limited** by student needs.

		Not Limited		Somewhat Limited		Very Limited		Average Scale
Country		Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Average Sca Score
Japan		73 (3.7)	571 (2.0)	27 (3.7)	563 (2.9)	0 (0.0)	~ ~	12.0 (0.14
Czech Republic		60 (3.7)	540 (3.0)	40 (3.7)	526 (3.4)	0 (0.0)	~ ~	11.1 (0.11
Indonesia		58 (3.3)	403 (6.7)	41 (3.3)	388 (8.6)	0 (0.2)	~ ~	10.9 (0.0
Poland		55 (3.8)	551 (3.2)	44 (3.7)	542 (3.2)	1 (0.7)	~ ~	11.0 (0.1
Slovak Republic		54 (3.2)	535 (3.5)	40 (3.2)	505 (4.8)	6 (1.7)	484 (17.9)	10.8 (0.1-
Serbia		51 (4.0)	527 (4.5)	45 (4.1)	520 (6.7)	4 (1.6)	538 (9.8)	10.6 (0.1
Norway (5)	r	51 (4.4)	544 (3.4)	45 (4.6)	534 (2.8)	5 (1.7)	520 (10.4)	10.7 (0.1
Belgium (Flemish)		49 (3.4)	521 (3.2)	49 (3.4)	503 (3.2)	2 (0.7)	~ ~	10.6 (0.1
Singapore		48 (2.7)	614 (4.7)	49 (2.6)	572 (5.2)	3 (0.9)	532 (31.8)	10.6 (0.1
Ireland		48 (3.8)	541 (3.1)	48 (3.8)	520 (3.1)	4 (1.6)	491 (8.3)	10.7 (0.1
Kazakhstan		47 (3.5)	562 (6.0)	45 (4.0)	538 (6.5)	8 (2.1)	543 (16.1)	10.3 (0.1
Spain		46 (3.5)	528 (2.4)	50 (3.8)	512 (4.4)	4 (1.5)	477 (8.1)	10.4 (0.1
Hong Kong SAR		45 (4.6)	567 (5.3)	53 (4.6)	549 (4.6)	2 (1.0)	~ ~	10.7 (0.1
Sweden		44 (3.9)	556 (4.4)	51 (3.9)	526 (5.4)	5 (1.7)	546 (12.6)	10.3 (0.1
Bulgaria		43 (3.7)	552 (5.8)	53 (3.4)	524 (9.5)	4 (1.4)	519 (20.2)	10.5 (0.1
Northern Ireland	r	43 (4.5)	535 (2.9)	55 (4.6)	511 (3.4)	2 (1.1)	~ ~	10.5 (0.1
Finland		43 (3.1)	564 (2.6)	55 (3.1)	548 (2.9)	2 (0.9)	~ ~	10.5 (0.1
Korea, Rep. of		42 (4.1)	592 (3.1)	51 (4.0)	586 (2.5)	7 (1.8)	598 (7.3)	10.3 (0.1
Hungary		41 (4.1)	557 (6.0)	56 (4.1)	535 (4.6)	3 (1.0)	469 (25.2)	10.5 (0.1
United Arab Emirates		39 (2.4)	488 (5.9)	57 (2.5)	438 (4.8)	4 (0.7)	356 (14.0)	10.3 (0.0
Croatia		39 (3.7)	536 (3.3)	56 (3.6)	533 (2.7)	5 (1.8)	520 (6.6)	10.2 (0.1
Chinese Taipei		39 (3.7)	554 (3.4)	55 (4.1)	557 (2.5)	6 (1.9)	551 (5.2)	10.2 (0.1
Germany		39 (3.6)	541 (3.2)	55 (3.6)	523 (3.4)	6 (1.6)	483 (9.8)	10.1 (0.1
Georgia		38 (3.7)	468 (7.2)	61 (3.8)	442 (4.6)	1 (0.6)	~ ~	10.3 (0.1
Australia		38 (3.4)	544 (4.4)	57 (3.5)	517 (3.3)	5 (1.6)	495 (12.9)	10.1 (0.1
Bahrain		36 (1.7)	471 (4.4)	55 (1.5)	454 (2.9)	9 (1.5)	443 (7.7)	9.9 (0.0
England	r	35 (4.3)	552 (5.3)	60 (4.2)	532 (4.0)	4 (1.7)	506 (4.4)	10.3 (0.1
New Zealand		34 (2.6)	533 (3.5)	60 (2.8)	495 (3.7)	6 (1.4)	460 (12.1)	10.0 (0.1
Netherlands	r	34 (4.7)	531 (4.0)	62 (5.1)	511 (3.4)	4 (1.8)	501 (14.2)	10.0 (0.1
Italy		33 (3.2)	522 (5.2)	56 (3.8)	513 (2.8)	11 (2.5)	514 (6.8)	9.8 (0.1
Qatar		33 (3.3)	462 (8.3)	63 (3.3)	429 (5.3)	4 (1.6)	381 (24.1)	10.1 (0.1
Denmark		30 (3.5)	537 (4.5)	61 (3.3)	522 (3.0)	9 (2.1)	520 (9.4)	9.7 (0.1
Lithuania		28 (3.4)	537 (4.3)	62 (3.5)	523 (3.6)	10 (1.6)	532 (8.4)	9.5 (0.1
Kuwait		28 (2.8)	365 (15.1)	67 (2.7)	331 (6.5)	5 (1.2)	285 (16.1)	9.6 (0.1
Russian Federation		27 (3.7)	579 (5.1)	58 (4.0)	567 (4.9)	15 (2.7)	548 (9.0)	9.3 (0.1
Portugal		26 (3.4)	519 (4.1)	63 (3.6)	505 (2.9)	12 (2.1)	501 (4.9)	9.5 (0.1
Oman		24 (2.4)	438 (7.7)	57 (3.4)	427 (4.4)	19 (2.4)	437 (8.5)	9.1 (0.1
United States		24 (2.2)	569 (6.2)	67 (2.5)	544 (2.8)	9 (1.4)	500 (6.5)	9.4 (0.1
Cyprus		23 (3.0)	486 (4.6)	61 (3.7)	481 (3.0)	16 (3.3)	477 (8.1)	9.1 (0.1
Canada		22 (2.0)	541 (3.3)	68 (2.3)	524 (2.7)	9 (1.6)	488 (12.7)	9.5 (0.1
Iran, Islamic Rep. of		21 (2.9)	447 (8.9)	57 (4.1)	419 (6.3)	22 (2.9)	401 (10.6)	8.8 (0.1
France		21 (2.7)	509 (4.8)	68 (3.1)	484 (3.5)	11 (2.5)	477 (6.3)	9.3 (0.1
Slovenia		18 (2.8)	547 (4.6)	69 (3.3)	542 (2.9)	13 (2.4)	544 (5.1)	9.1 (0.1
Saudi Arabia		17 (2.7)	422 (10.6)	73 (3.5)	387 (5.7)	10 (2.4)	362 (18.6)	9.2 (0.1
Chile		17 (3.1)	515 (6.9)	57 (4.2)	477 (4.1)	25 (3.6)	456 (6.7)	8.7 (0.1
Turkey		13 (2.6)	510 (9.6)	70 (3.1)	482 (4.1)	17 (2.4)	468 (8.6)	8.7 (0.1
Morocco		13 (1.7)	406 (10.3)	70 (2.3)	349 (6.2)	17 (2.0)	329 (9.3)	8.8 (0.0
International Avg.		37 (0.5)	521 (0.8)	56 (0.5)	500 (0.2)	7 (0.3)	480 (2.1)	0.0 (0.0

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 "x" indicates data are available for less than 50% of students.





## Exhibit 9.13: Teaching Limited by Student Needs (Continued)

	Not Limited		Somewhat Limited		Very Limited		Augusta Carla
Country	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Average Scale Score
enchmarking Participants							
Dubai, UAE	53 (2.2)	544 (3.0)	47 (2.2)	499 (4.5)	0 (0.2)	~ ~	10.8 (0.08)
Norway (4)	47 (4.3)	499 (3.0)	48 (4.2)	490 (2.9)	4 (1.7)	462 (19.8)	10.5 (0.16)
Abu Dhabi, UAE	32 (4.2)	455 (13.9)	62 (4.5)	404 (9.7)	6 (2.0)	333 (26.0)	9.9 (0.16)
Quebec, Canada	24 (4.6)	543 (5.9)	74 (4.6)	518 (4.5)	2 (1.1)	~ ~	9.7 (0.16)
Ontario, Canada	23 (2.6)	543 (4.4)	67 (3.6)	530 (3.3)	10 (2.3)	512 (9.3)	9.5 (0.10)
Florida, US r	12 (3.7)	566 (15.4)	75 (4.5)	552 (5.6)	12 (3.8)	524 (13.4)	9.2 (0.21)
Buenos Aires, Argentina	хх						
In your view, to wh	nat extent do t	the following l	imit how you	teach this clas Not	s? Some	A lot	
1) Students lacking	, proroquicito k		ville	at all			

In your view, to what extent do the following limit how you teach this class?						
	Not at all	Some	A lot			
<ol> <li>Students lacking prerequisite knowledge or skills</li> <li>Students suffering from lack of basic nutrition</li> <li>Students suffering from not enough sleep</li> <li>Disruptive students</li> </ol>						
<ul> <li>5) Uninterested students</li> <li>6) Students with mental, emotional, or psychological disabilities</li> </ul>	0	0 0	0			
	Not Limited	Somewhat Limited	Very Limited			

