

## Exhibit 5.1.12: Teachers Majored in Science and Science Education – Teachers' Reports

**About the Index**

**Major in Science and Science Education:** Teachers majored in science and majored in science education

**Major in Science No Major in Science Education:** Teachers majored in science but did not major in science education

**Major in Science Education but No Major in Science:** Teachers did not major in science but majored in science education

**All Other Majors:** Teachers did not major in science, did not major in science education, but completed post-secondary education (ISCED Level 4) or higher

**No Formal Education Beyond Upper-Secondary:** Teachers completed no higher than ISCED Level 3

## Exhibit 5.1.13: Teachers Majored in Science and Science Education – Teachers' Reports

Country	Major in Science and Science Education		Major in Science but No Major in Science Education		Major in Science Education but No Major in Science		All Other Majors		No Formal Education Beyond Upper-Secondary		
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	
Australia	s	68 (3.2)	526 (4.5)	21 (2.6)	527 (6.0)	6 (1.3)	518 (10.4)	6 (1.6)	519 (12.1)	0 ~	~ ~
Austria		16 (1.6)	517 (4.5)	7 (1.2)	511 (8.2)	62 (1.9)	520 (3.4)	15 (1.4)	480 (6.7)	0 ~	~ ~
Azerbaijan	r	29 (1.6)	413 (4.0)	61 (1.7)	411 (3.3)	0 ~	~ ~	7 (1.1)	408 (12.0)	3 (0.7)	401 (8.9)
Bahrain		36 (3.5)	464 (6.2)	59 (3.5)	446 (4.3)	4 (1.0)	430 (22.6)	0 ~	~ ~	0 ~	~ ~
Brazil		76 (2.5)	424 (4.2)	19 (2.4)	417 (8.6)	1 ~	~ ~	4 (0.7)	376 (7.1)	1 ~	~ ~
Chile		53 (4.2)	469 (4.7)	22 (3.5)	441 (5.5)	9 (2.7)	447 (12.6)	15 (3.1)	441 (8.9)	1 ~	~ ~
Chinese Taipei		23 (3.1)	582 (5.9)	71 (3.5)	570 (3.2)	1 ~	~ ~	6 (1.8)	548 (15.3)	0 ~	~ ~
Cyprus		11 (1.6)	488 (10.0)	88 (1.6)	460 (2.8)	0 ~	~ ~	1 ~	~ ~	0 ~	~ ~
Czech Republic		10 (1.1)	531 (4.7)	21 (1.5)	521 (3.1)	53 (2.0)	531 (2.1)	14 (1.3)	519 (4.4)	2 ~	~ ~
England	s	55 (5.2)	525 (8.7)	39 (5.3)	539 (10.0)	5 (2.6)	554 (25.6)	0 ~	~ ~	2 ~	~ ~
Finland		14 (1.4)	533 (5.1)	63 (1.9)	534 (3.7)	0 ~	~ ~	21 (1.3)	521 (5.3)	2 ~	~ ~
France		45 (3.0)	487 (4.3)	50 (2.9)	494 (3.6)	2 ~	~ ~	3 (1.0)	421 (26.6)	0 ~	~ ~
Georgia		36 (1.9)	446 (3.2)	61 (1.9)	450 (3.2)	1 ~	~ ~	2 ~	~ ~	0 ~	~ ~
Hong Kong SAR	s	41 (4.6)	545 (11.9)	43 (4.6)	522 (10.2)	8 (2.3)	534 (12.5)	7 (2.2)	505 (13.5)	1 ~	~ ~
Hungary		18 (1.5)	518 (6.4)	9 (1.2)	522 (5.5)	69 (1.9)	525 (3.4)	4 (1.0)	493 (13.4)	0 ~	~ ~
Iran, Islamic Rep. of		26 (2.9)	439 (5.9)	32 (3.2)	421 (7.0)	29 (3.0)	410 (8.2)	12 (2.2)	387 (10.8)	1 ~	~ ~
Ireland		61 (3.8)	531 (4.1)	34 (3.8)	526 (5.8)	2 ~	~ ~	2 ~	~ ~	0 ~	~ ~
Israel		61 (3.6)	488 (5.1)	29 (3.2)	476 (10.4)	8 (2.0)	465 (13.3)	3 (1.1)	464 (23.2)	0 ~	~ ~
Italy		35 (3.7)	499 (4.4)	58 (3.7)	498 (5.1)	2 ~	~ ~	3 (1.4)	503 (17.3)	2 ~	~ ~
Japan		36 (4.6)	556 (7.7)	51 (4.7)	558 (3.0)	10 (2.2)	558 (4.6)	3 (1.3)	546 (8.0)	0 ~	~ ~
Jordan		18 (3.1)	419 (8.5)	69 (3.7)	411 (4.7)	6 (1.3)	427 (12.5)	2 ~	~ ~	5 (1.6)	421 (22.1)
Kazakhstan		39 (2.2)	449 (4.5)	59 (2.2)	439 (3.3)	0 ~	~ ~	1 ~	~ ~	1 ~	~ ~
Korea, Rep. of		34 (3.7)	546 (3.7)	60 (3.8)	545 (2.8)	6 (1.8)	555 (8.9)	0 ~	~ ~	0 ~	~ ~
Kuwait		11 (2.5)	438 (26.1)	55 (3.9)	425 (7.5)	31 (3.4)	401 (8.9)	3 (1.5)	455 (31.1)	0 ~	~ ~
Lithuania		18 (1.6)	524 (4.9)	77 (1.8)	519 (3.1)	2 ~	~ ~	3 (0.8)	505 (9.6)	0 ~	~ ~
Malaysia		35 (3.2)	424 (6.8)	39 (3.1)	433 (6.6)	10 (2.1)	417 (10.5)	15 (2.3)	421 (10.2)	0 ~	~ ~
Malta		51 (0.6)	507 (2.1)	46 (0.6)	496 (2.3)	0 ~	~ ~	2 ~	~ ~	0 ~	~ ~
Morocco		19 (2.1)	329 (6.1)	78 (2.2)	325 (4.1)	0 ~	~ ~	0 ~	~ ~	3 (0.9)	338 (20.9)
Norway (9)	r	15 (2.7)	500 (7.6)	24 (2.8)	501 (3.5)	21 (3.1)	481 (5.8)	39 (3.4)	488 (3.5)	1 ~	~ ~
Oman		31 (3.2)	466 (5.5)	65 (3.4)	450 (3.6)	2 ~	~ ~	0 ~	~ ~	2 ~	~ ~
Palestinian Nat'l Auth.		14 (2.3)	400 (10.1)	49 (3.7)	394 (4.3)	32 (3.3)	386 (4.4)	3 (1.3)	409 (29.3)	2 ~	~ ~
Portugal		59 (2.5)	506 (3.0)	40 (2.6)	506 (3.4)	0 ~	~ ~	1 ~	~ ~	0 ~	~ ~
Qatar		34 (3.7)	498 (8.4)	53 (4.2)	466 (5.9)	6 (1.5)	500 (17.8)	7 (2.5)	497 (10.2)	0 ~	~ ~
Romania	r	28 (2.6)	473 (4.7)	70 (2.7)	471 (4.3)	1 ~	~ ~	1 ~	~ ~	1 ~	~ ~
Saudi Arabia		17 (2.8)	432 (9.1)	67 (3.3)	417 (4.4)	8 (1.9)	425 (11.7)	2 ~	~ ~	7 (1.9)	415 (11.8)
Singapore		61 (3.1)	606 (7.0)	36 (3.1)	605 (10.6)	1 ~	~ ~	2 ~	~ ~	0 ~	~ ~
South Africa (9)	s	0 ~	~ ~	82 (3.1)	365 (5.1)	0 ~	~ ~	13 (2.7)	380 (17.7)	5 (1.3)	331 (12.9)
Sweden	r	52 (3.6)	523 (4.6)	21 (2.5)	517 (6.1)	15 (2.7)	530 (8.7)	8 (2.1)	516 (12.0)	4 (1.3)	533 (15.3)
Türkiye		37 (3.8)	525 (7.5)	15 (2.9)	553 (9.7)	45 (4.0)	526 (7.3)	2 ~	~ ~	0 ~	~ ~
United Arab Emirates		45 (1.4)	500 (3.9)	46 (1.4)	475 (3.4)	5 (0.6)	432 (12.0)	3 (0.7)	484 (15.2)	1 ~	~ ~
United States		31 (2.7)	513 (6.3)	28 (3.3)	516 (9.6)	16 (2.4)	520 (6.2)	25 (2.5)	512 (8.8)	0 ~	~ ~
Uzbekistan		33 (2.3)	396 (6.1)	64 (2.4)	396 (3.5)	1 ~	~ ~	0 ~	~ ~	2 ~	~ ~
<b>International Average</b>		<b>34 (0.5)</b>	<b>487 (1.2)</b>	<b>47 (0.5)</b>	<b>478 (0.9)</b>	<b>11 (0.3)</b>	<b>482 (2.4)</b>	<b>6 (0.2)</b>	<b>472 (3.0)</b>	<b>1 (0.1)</b>	<b>407 (6.5)</b>
Cote d'Ivoire	x	56 (4.4)	181 (8.7)	38 (4.3)	187 (18.3)	3 (1.3)	146 (31.3)	2 ~	~ ~	1 ~	~ ~
<b>Benchmarking Participants</b>											
Abu Dhabi, UAE		48 (2.6)	454 (7.0)	42 (2.4)	434 (7.6)	5 (1.2)	410 (21.2)	4 (1.5)	450 (20.0)	1 ~	~ ~
Dubai, UAE		51 (2.4)	566 (5.7)	43 (2.4)	534 (6.4)	2 ~	~ ~	2 ~	~ ~	1 ~	~ ~
Sharjah, UAE		41 (3.7)	501 (6.7)	51 (3.2)	483 (5.2)	5 (1.8)	479 (34.0)	2 ~	~ ~	1 ~	~ ~

( ) 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 tilde (~) indicates insufficient data to report result.