

Exhibit 7.2.1: Students Value Environmental Preservation
About the Scale

Students were scored according to their reports of how much they agreed with six statements about preservation of the environment on the *Students Value Environmental Preservation* scale. Cut scores divide the scale into three categories. Students who **Very Strongly Value** environmental preservation had a score at or above the cut score corresponding to “agreeing a lot” with three of the six statements and “agreeing a little” with the other three, on average. Students who **Somewhat Value** environmental preservation had a score at or below the cut score corresponding to “agreeing a little” with three of the six statements and “disagreeing a little” with the other three, on average. All other students **Strongly Value** environmental preservation.

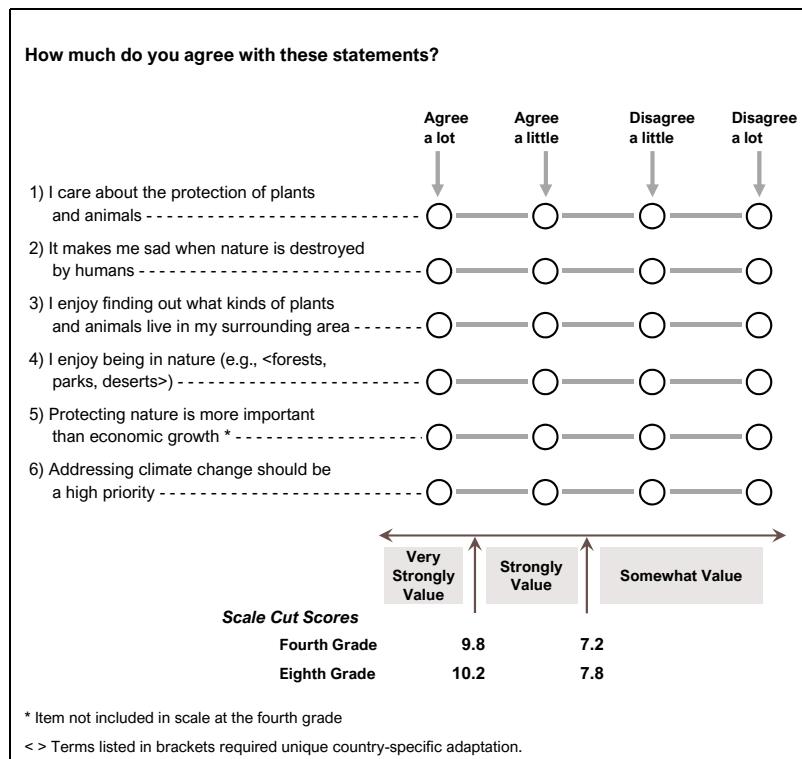


Exhibit 7.2.2: Students Value Environmental Preservation

Country	Very Strongly Value		Strongly Value		Somewhat Value		Average Scale Score
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	
Albania	r	77 (1.3)	494 (5.5)	21 (1.1)	475 (8.5)	2 ~	~ ~
Armenia		55 (1.1)	479 (5.3)	40 (0.9)	465 (5.7)	5 (0.4)	426 (13.8)
Australia		53 (1.1)	557 (3.8)	41 (1.0)	552 (4.2)	6 (0.4)	526 (8.0)
Azerbaijan		53 (1.1)	433 (4.3)	41 (0.9)	404 (5.3)	6 (0.4)	370 (8.8)
Bahrain		54 (1.0)	493 (4.4)	38 (0.9)	465 (4.6)	8 (0.5)	421 (9.8)
Belgium (Flemish)		54 (1.1)	505 (4.2)	39 (0.9)	480 (3.6)	7 (0.5)	435 (8.2)
Belgium (French)		54 (1.0)	500 (3.3)	38 (0.9)	467 (3.3)	7 (0.4)	443 (7.5)
Bosnia & Herzegovina		61 (1.4)	452 (4.9)	36 (1.3)	451 (6.3)	3 (0.4)	454 (15.8)
Brazil		53 (0.7)	454 (5.5)	40 (0.6)	432 (5.3)	7 (0.4)	375 (8.2)
Bulgaria		73 (1.3)	548 (4.6)	24 (1.1)	504 (10.5)	3 (0.5)	414 (31.8)
Canada		60 (0.7)	537 (2.2)	35 (0.6)	512 (2.8)	5 (0.2)	480 (6.6)
Chile		61 (1.0)	494 (3.5)	33 (0.9)	482 (3.7)	5 (0.4)	433 (8.5)
Chinese Taipei		53 (0.9)	569 (2.4)	40 (0.9)	566 (3.0)	8 (0.5)	559 (6.4)
Cyprus		69 (0.9)	487 (3.1)	28 (0.9)	470 (4.4)	3 (0.3)	442 (11.6)
Czech Republic		51 (1.0)	527 (3.5)	43 (0.9)	516 (3.2)	5 (0.3)	494 (6.2)
Denmark		37 (1.0)	552 (3.1)	50 (1.0)	536 (3.4)	13 (0.8)	497 (8.5)
England		57 (1.3)	572 (4.7)	36 (1.1)	548 (3.7)	7 (0.6)	518 (8.5)
Finland		49 (1.0)	557 (3.4)	43 (0.8)	538 (4.2)	8 (0.5)	502 (6.9)
France		54 (1.1)	514 (3.2)	40 (1.1)	484 (5.1)	6 (0.5)	450 (8.1)
Georgia		65 (1.3)	474 (5.1)	33 (1.2)	447 (4.7)	2 ~	~ ~
Germany		56 (0.9)	531 (3.0)	38 (0.8)	501 (4.0)	6 (0.4)	479 (8.6)
Hong Kong SAR		50 (1.1)	549 (4.9)	42 (0.8)	542 (5.1)	9 (0.6)	525 (9.4)
Hungary		59 (1.0)	549 (3.6)	36 (0.9)	522 (5.2)	5 (0.4)	483 (8.9)
Iran, Islamic Rep. of		72 (1.0)	440 (5.3)	25 (0.9)	410 (6.3)	3 (0.4)	364 (17.9)
Ireland		64 (1.0)	549 (3.7)	32 (0.9)	521 (5.0)	4 (0.4)	483 (14.1)
Italy		61 (0.9)	533 (3.5)	35 (0.9)	499 (3.3)	4 (0.3)	469 (10.0)
Japan		48 (1.2)	551 (3.9)	47 (1.1)	534 (4.7)	5 (0.4)	531 (7.7)
Jordan		49 (1.3)	424 (5.6)	41 (1.0)	405 (6.5)	10 (0.8)	392 (8.6)
Kazakhstan		46 (1.2)	479 (4.6)	49 (1.0)	445 (4.9)	5 (0.4)	414 (9.2)
Korea, Rep. of		34 (1.0)	585 (5.2)	54 (1.0)	573 (4.0)	12 (0.6)	560 (8.1)
Kosovo		62 (1.0)	413 (4.2)	35 (1.0)	389 (5.2)	3 (0.4)	356 (11.6)
Kuwait		54 (1.0)	417 (6.2)	40 (0.9)	380 (6.3)	6 (0.5)	322 (12.9)
Latvia		52 (1.3)	513 (3.1)	43 (1.2)	497 (4.9)	5 (0.5)	480 (10.6)
Lithuania		63 (0.9)	529 (3.2)	34 (0.9)	512 (5.4)	4 (0.3)	478 (11.2)
Macao SAR		54 (0.6)	533 (2.4)	40 (0.6)	524 (2.6)	6 (0.3)	516 (8.1)
Montenegro		63 (0.8)	481 (2.9)	32 (0.8)	455 (3.9)	5 (0.4)	428 (10.2)
Morocco		61 (1.7)	411 (6.5)	34 (1.5)	367 (7.6)	6 (0.4)	354 (10.0)
Netherlands		47 (1.2)	531 (3.1)	43 (1.2)	516 (2.8)	10 (0.7)	482 (7.3)
New Zealand		53 (0.9)	533 (3.4)	40 (0.8)	511 (3.7)	7 (0.5)	487 (9.2)
North Macedonia		68 (1.0)	460 (4.1)	27 (0.8)	420 (5.7)	4 (0.4)	381 (11.4)
Norway (5)		37 (0.9)	544 (3.2)	51 (0.7)	537 (4.0)	12 (0.6)	512 (6.3)
Oman		51 (0.8)	450 (4.6)	40 (0.8)	415 (5.0)	9 (0.5)	371 (8.3)
Poland		51 (1.0)	560 (3.2)	43 (0.9)	557 (2.8)	5 (0.4)	538 (7.3)
Portugal		73 (0.9)	523 (4.2)	25 (0.8)	512 (3.8)	2 ~	~ ~
Qatar		51 (0.9)	492 (4.0)	39 (0.8)	454 (4.4)	9 (0.4)	397 (9.6)
Romania		72 (1.2)	531 (5.2)	26 (1.1)	520 (6.3)	3 (0.4)	480 (19.4)
Saudi Arabia		47 (1.1)	456 (3.9)	40 (0.9)	427 (5.0)	13 (0.6)	396 (5.2)
Serbia		63 (1.2)	524 (3.8)	33 (1.1)	513 (3.5)	4 (0.4)	491 (9.3)
Singapore		54 (0.7)	588 (4.1)	39 (0.6)	570 (4.8)	7 (0.4)	550 (7.0)
Slovak Republic		52 (1.3)	523 (4.9)	42 (1.1)	503 (5.5)	6 (0.5)	462 (12.5)
Slovenia		57 (1.1)	524 (4.4)	39 (1.0)	522 (4.1)	4 (0.3)	483 (8.6)
Spain		63 (0.8)	520 (2.6)	33 (0.7)	500 (3.4)	4 (0.3)	457 (7.4)
Sweden		40 (1.0)	542 (4.7)	48 (0.9)	524 (4.6)	13 (0.6)	493 (6.3)
Türkiye (5)		75 (0.9)	559 (3.9)	22 (0.8)	540 (6.7)	2 ~	~ ~
United Arab Emirates		59 (0.4)	523 (1.7)	35 (0.3)	475 (2.6)	6 (0.2)	407 (5.0)
United States		50 (0.8)	557 (3.3)	42 (0.8)	529 (3.5)	8 (0.4)	490 (5.9)
Uzbekistan		59 (1.4)	433 (3.5)	36 (1.2)	405 (4.0)	5 (0.4)	369 (9.6)
International Average		56 (0.1)	510 (0.5)	38 (0.1)	488 (0.6)	6 (0.1)	455 (1.5)
South Africa (5)		- -	- -	- -	- -	- -	9.1 (0.05)
Benchmarking Participants							
Ontario, Canada		60 (1.0)	546 (3.5)	35 (1.0)	523 (4.4)	5 (0.4)	489 (9.4)
Quebec, Canada		56 (1.1)	517 (3.2)	39 (1.0)	493 (3.6)	6 (0.4)	469 (8.8)
Abu Dhabi, UAE		51 (0.8)	482 (2.7)	39 (0.6)	427 (4.1)	9 (0.4)	363 (5.8)
Dubai, UAE		65 (0.7)	579 (2.0)	31 (0.7)	552 (3.0)	4 (0.3)	506 (8.7)
Sharjah, UAE		62 (0.9)	521 (4.1)	32 (0.7)	480 (5.2)	5 (0.4)	420 (9.3)

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 because average achievement could not be accurately estimated. A tilde (~) indicates insufficient data to report result.

Exhibit 7.2.3: Students Value Environmental Preservation

Country	Very Strongly Value		Strongly Value		Somewhat Value		Average Scale Score
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	
Australia	38 (0.9)	540 (4.2)	45 (0.9)	519 (4.0)	17 (0.8)	497 (5.3)	9.6 (0.04)
Austria	33 (0.8)	526 (4.3)	49 (0.9)	502 (3.4)	18 (0.8)	464 (6.2)	9.4 (0.03)
Azerbaijan	54 (1.0) ^r	420 (3.4)	37 (0.8)	413 (4.3)	9 (0.5)	399 (7.7)	10.3 (0.04)
Bahrain	53 (0.8)	455 (3.0)	37 (0.8)	442 (3.7)	10 (0.6)	426 (7.9)	10.2 (0.04)
Brazil	56 (0.8)	430 (3.2)	37 (0.8)	434 (4.4)	7 (0.4)	410 (6.4)	10.4 (0.03)
Chile	55 (1.0)	469 (4.2)	39 (0.9)	460 (3.4)	6 (0.5)	426 (9.3)	10.5 (0.04)
Chinese Taipei	37 (0.9)	557 (4.0)	50 (0.8)	553 (2.5)	13 (0.6)	554 (6.8)	9.7 (0.04)
Cyprus	58 (1.0)	476 (4.3)	34 (0.8)	466 (4.3)	8 (0.5)	448 (7.1)	10.5 (0.04)
Czech Republic	30 (0.7)	530 (2.7)	54 (0.7)	515 (2.3)	16 (0.5)	504 (3.7)	9.3 (0.02)
England	35 (1.1)	550 (5.6)	45 (0.9)	537 (5.3)	20 (0.9)	501 (6.3)	9.4 (0.05)
Finland	24 (0.8)	548 (6.1)	49 (0.9)	545 (3.0)	27 (0.9)	519 (3.6)	9.0 (0.04)
France	37 (1.0)	511 (4.3)	48 (1.0)	494 (4.1)	15 (0.9)	470 (4.5)	9.6 (0.04)
Georgia	62 (0.9)	443 (3.2)	33 (0.8)	446 (3.8)	5 (0.5)	424 (6.9)	10.6 (0.04)
Hong Kong SAR	37 (1.1)	536 (5.6)	49 (0.9)	531 (5.6)	15 (0.7)	535 (9.4)	9.7 (0.06)
Hungary	43 (1.0)	534 (3.7)	46 (0.9)	515 (4.5)	11 (0.6)	483 (7.4)	9.9 (0.04)
Iran, Islamic Rep. of	65 (0.7)	414 (4.0)	30 (0.7)	400 (6.7)	5 (0.3)	365 (10.8)	10.6 (0.03)
Ireland	44 (1.3)	545 (3.7)	43 (1.3)	527 (4.6)	13 (0.5)	504 (6.8)	9.9 (0.05)
Israel	36 (0.9)	489 (5.8)	44 (0.7)	488 (3.9)	21 (0.7)	455 (4.5)	9.5 (0.04)
Italy	48 (1.1)	517 (3.7)	43 (1.0)	500 (4.6)	10 (0.5)	465 (6.9)	10.0 (0.04)
Japan	32 (0.8)	553 (4.7)	55 (1.0)	552 (3.8)	12 (0.5)	542 (5.8)	9.5 (0.03)
Jordan	52 (1.0)	427 (3.6)	36 (0.7)	409 (4.6)	12 (0.6)	375 (7.8)	10.2 (0.04)
Kazakhstan	46 (0.9)	444 (3.5)	47 (0.8)	434 (3.2)	7 (0.4)	426 (7.1)	10.1 (0.03)
Korea, Rep. of	27 (0.8)	554 (5.0)	50 (0.9)	550 (3.1)	23 (0.6)	534 (5.1)	9.2 (0.03)
Kuwait	59 (1.1)	429 (4.8)	34 (0.9)	420 (7.5)	8 (0.5)	391 (14.1)	10.4 (0.04)
Lithuania	58 (0.8)	515 (3.3)	35 (0.8)	506 (3.6)	7 (0.4)	490 (6.4)	10.5 (0.03)
Malaysia	46 (0.9)	456 (4.5)	46 (0.8)	415 (3.8)	8 (0.4)	343 (6.3)	10.0 (0.03)
Malta	56 (0.8)	511 (2.3)	35 (0.8)	492 (3.3)	9 (0.5)	465 (8.0)	10.4 (0.03)
Morocco	62 (0.9)	334 (3.4)	30 (0.8)	333 (4.3)	7 (0.4)	326 (7.6)	10.6 (0.03)
Norway (9)	23 (0.7)	517 (4.1)	50 (0.8)	518 (3.2)	26 (0.7)	480 (4.6)	8.9 (0.03)
Oman	47 (0.9)	471 (3.5)	41 (0.8)	451 (2.9)	13 (0.5)	412 (5.8)	9.9 (0.03)
Palestinian Nat'l Auth.	52 (0.8)	393 (2.7)	35 (0.7)	361 (3.3)	13 (0.6)	326 (7.0)	10.2 (0.04)
Portugal	62 (0.9)	522 (2.6)	33 (0.8)	523 (4.4)	5 (0.3)	492 (9.3)	10.7 (0.03)
Qatar	55 (1.4)	490 (4.3)	34 (1.1)	478 (5.4)	11 (0.7)	444 (9.1)	10.3 (0.06)
Romania	69 (1.0)	467 (4.1)	24 (0.8)	461 (5.8)	6 (0.6)	445 (13.8)	11.0 (0.04)
Saudi Arabia	58 (0.8)	421 (4.1)	33 (0.7)	418 (3.9)	9 (0.4)	380 (6.9)	10.5 (0.03)
Singapore	42 (0.9)	602 (5.8)	46 (0.7)	592 (6.0)	12 (0.7)	573 (10.2)	9.9 (0.04)
South Africa (9)	40 (0.8)	378 (4.8)	49 (0.6)	347 (4.7)	11 (0.5)	338 (7.9)	9.6 (0.03)
Sweden	28 (1.1)	559 (4.7)	46 (0.9)	546 (4.7)	26 (1.0)	504 (5.1)	9.1 (0.05)
Türkiye	69 (1.0)	525 (3.3)	27 (0.9)	529 (5.5)	4 (0.4)	511 (12.6)	10.9 (0.04)
United Arab Emirates	58 (0.5)	487 (2.6)	33 (0.5)	483 (2.3)	9 (0.2)	449 (4.0)	10.6 (0.02)
United States	46 (0.8)	531 (4.6)	42 (0.6)	516 (4.4)	13 (0.5)	492 (5.3)	10.0 (0.03)
Uzbekistan	68 (1.0)	399 (3.5)	28 (0.9)	386 (4.5)	4 (0.4)	347 (10.2)	10.8 (0.05)
International Average	48 (0.1)	488 (0.6)	41 (0.1)	476 (0.7)	12 (0.1)	451 (1.2)	
Côte d'Ivoire	--	--	--	--	--	--	9.5 (0.05)
Benchmarking Participants							
Abu Dhabi, UAE	53 (0.8)	459 (4.2)	36 (0.7)	442 (3.9)	11 (0.4)	397 (5.6)	10.3 (0.03)
Dubai, UAE	53 (0.9)	542 (3.4)	37 (0.8)	542 (3.6)	9 (0.5)	525 (5.4)	10.3 (0.04)
Sharjah, UAE	68 (1.7)	492 (6.6)	26 (1.3)	486 (4.3)	6 (0.5)	461 (7.7)	11.0 (0.08)

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