

Exhibit 3.1: Home Socioeconomic Status

Parents' Reports

About the Scale

Students were scored according to their parents' reports regarding the four indicators on the *Home Socioeconomic Status* scale. Cut scores divide the scale into three categories. Students with **Higher** socioeconomic status had a score at or above the cut score corresponding to their parents reporting they had more than 25 books and more than 25 children's books in their home, that at least one parent finished university, and that at least one parent had a professional occupation, on average. Students with **Lower** socioeconomic status had a score at or below the cut score corresponding to their parents reporting they had 25 or fewer books and 25 or fewer children's books in the home, that neither parent had gone beyond upper-secondary education, and that neither parent was a small business owner or worked in a clerical or professional occupation, on average. All other students had **Middle** socioeconomic status.

Number of books in the home:

- 1) 0–10
- 2) 11–25
- 3) 26–100
- 4) 101–200
- 5) More than 200

Number of children's books in the home:

- 1) 0–10
- 2) 11–25
- 3) 26–50
- 4) 51–100
- 5) More than 100

Highest level of education of either parent:

- 1) Finished some primary or lower-secondary or did not go to school
- 2) Finished lower-secondary
- 3) Finished upper-secondary
- 4) Finished post-secondary education
- 5) Finished university or higher

Highest level of occupation of either parent:

- 1) Has never worked outside home for pay, general laborer, or semi-professional (skilled agricultural or fishery worker, craft or trade worker, plant or machine operator)
- 2) Clerical (clerk or service or sales worker)
- 3) Small business owner
- 4) Professional (corporate manager or senior official, professional, or technician or associate professional)

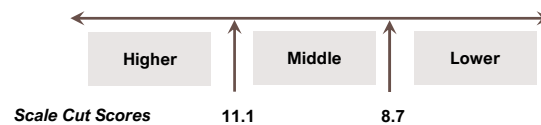


Exhibit 3.2a: Home Socioeconomic Status and Growth in Achievement
Parents' Reports in 2023

Country	Higher Socioeconomic Status		Middle Socioeconomic Status		Lower Socioeconomic Status	
	Percent of Students	Average Growth	Percent of Students	Average Growth	Percent of Students	Average Growth
Georgia	36 (1.2)	23 (3.1)	52 (1.1)	20 (3.9)	12 (0.8)	15 (6.7)
Italy	26 (1.4)	43 (2.3)	51 (1.2)	39 (2.2)	23 (1.1)	35 (2.8)
Jordan	6 (0.6)	11 (8.0)	49 (1.3)	16 (5.6)	45 (1.5)	8 (5.1)
Korea, Rep. of	64 (1.5)	39 (1.7)	32 (1.3)	42 (2.1)	3 (0.4)	41 (6.4)
Kosovo	s 16 (1.2)	19 (4.0)	51 (1.3)	17 (2.6)	33 (1.7)	16 (3.0)
Montenegro	r 31 (1.1)	24 (2.3)	53 (0.9)	19 (2.4)	16 (0.7)	2 (3.3)
North Macedonia	18 (1.2)	23 (4.2)	47 (1.2)	21 (2.6)	36 (1.5)	6 (4.8)
Slovenia	r 45 (1.1)	43 (1.8)	47 (1.1)	41 (1.8)	8 (0.5)	34 (4.4)
Sweden	r 56 (1.8)	31 (2.1)	39 (1.4)	29 (2.0)	6 (0.6)	23 (4.2)

This TIMSS context questionnaire scale was established in 2019 based on the combined response distribution of countries that participated in TIMSS 2019. 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.

An "s" indicates data are available for at least 50% but less than 70% of the students.

SOURCE: IEA's Trends in International Mathematics and Science Study - TIMSS 2023 Longitudinal
 Downloaded from: <https://timss2023.org/longitudinal/results>

Exhibit 3.2b: Home Socioeconomic Status and Average Achievement
Parents' Reports in 2023 and 2024

Country	Higher Socioeconomic Status		Middle Socioeconomic Status		Lower Socioeconomic Status		Average Scale Score
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	
Georgia							
Grade 4	36 (1.2)	523 (3.4)	52 (1.1)	490 (3.4)	12 (0.8)	459 (9.4)	10.5 (0.04)
Grade 5	36 (1.4)	549 (3.3)	51 (1.5)	511 (3.7)	13 (1.4)	474 (9.7)	10.5 (0.05)
Italy							
Grade 4	26 (1.4)	544 (3.0)	51 (1.2)	513 (3.2)	23 (1.1)	486 (4.1)	10.0 (0.06)
Grade 5	26 (1.4)	586 (4.0)	52 (1.0)	552 (3.1)	22 (1.2)	516 (3.9)	10.1 (0.06)
Jordan							
Grade 4	6 (0.6)	487 (8.9)	49 (1.3)	445 (5.3)	45 (1.5)	407 (7.2)	8.9 (0.05)
Grade 5	6 (0.6)	501 (9.1)	54 (1.4)	456 (5.0)	41 (1.7)	410 (6.1)	9.0 (0.05)
Korea, Rep. of							
Grade 4	64 (1.5)	613 (2.5)	32 (1.3)	568 (3.2)	3 (0.4)	519 (11.0)	11.6 (0.05)
Grade 5	58 (1.5)	654 (2.6)	38 (1.3)	615 (3.1)	5 (0.6)	561 (10.1)	11.4 (0.05)
Kosovo							
Grade 4	16 (1.2)	509 (6.2)	51 (1.3)	465 (3.7)	33 (1.7)	425 (6.2)	9.5 (0.06)
Grade 5	- -	- -	- -	- -	- -	- -	- -
Montenegro							
Grade 4	31 (1.1)	506 (3.1)	53 (0.9)	474 (2.2)	16 (0.7)	444 (3.3)	10.2 (0.04)
Grade 5	30 (1.1)	534 (3.1)	54 (1.2)	494 (2.2)	16 (0.8)	447 (3.9)	10.2 (0.04)
North Macedonia							
Grade 4	18 (1.2)	522 (4.6)	47 (1.2)	482 (3.4)	36 (1.5)	443 (4.8)	9.4 (0.08)
Grade 5	18 (1.3)	550 (4.6)	48 (1.4)	500 (3.6)	33 (1.7)	451 (4.9)	9.4 (0.07)
Slovenia							
Grade 4	45 (1.1)	540 (2.3)	47 (1.1)	502 (2.3)	8 (0.5)	477 (4.6)	10.8 (0.03)
Grade 5	44 (1.2)	584 (2.6)	47 (1.1)	546 (2.2)	9 (0.6)	509 (4.9)	10.8 (0.04)
Sweden							
Grade 4	56 (1.8)	559 (2.4)	39 (1.4)	513 (3.1)	6 (0.6)	484 (4.4)	11.3 (0.07)
Grade 5	- -	- -	- -	- -	- -	- -	- -

This TIMSS context questionnaire scale was established in 2019 based on the combined response distribution of countries that participated in TIMSS 2019. 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.

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An "s" indicates data are available for at least 50% but less than 70% of the students.

A "y" indicates data are available for less than 40% of the students.

A dash (-) indicates comparable data not available.

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Exhibit 3.3a: Home Socioeconomic Status and Growth in Achievement

Parents' Reports in 2023

Country	Higher Socioeconomic Status		Middle Socioeconomic Status		Lower Socioeconomic Status	
	Percent of Students	Average Growth	Percent of Students	Average Growth	Percent of Students	Average Growth
Georgia	36 (1.2)	30 (2.6)	52 (1.1)	20 (3.1)	12 (0.8)	0 (5.4)
Italy	26 (1.4)	34 (2.6)	51 (1.2)	33 (2.2)	23 (1.1)	30 (2.6)
Jordan	6 (0.6)	25 (7.8)	49 (1.3)	22 (5.7)	45 (1.5)	17 (5.4)
Korea, Rep. of	64 (1.5)	32 (1.9)	32 (1.3)	37 (2.2)	3 (0.4)	43 (6.9)
Kosovo	s 16 (1.2)	20 (3.6)	51 (1.3)	19 (2.7)	33 (1.7)	21 (3.4)
Montenegro	r 31 (1.1)	20 (2.7)	53 (0.9)	21 (1.5)	16 (0.7)	9 (4.7)
North Macedonia	18 (1.2)	14 (3.8)	47 (1.2)	13 (2.6)	36 (1.5)	5 (4.1)
Slovenia	r 45 (1.1)	34 (2.0)	47 (1.1)	37 (1.9)	8 (0.5)	47 (4.6)
Sweden	r 56 (1.8)	28 (2.0)	39 (1.4)	28 (2.0)	6 (0.6)	32 (6.3)

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Exhibit 3.3b: Home Socioeconomic Status and Average Achievement

Parents' Reports in 2023 and 2024

Country	Higher Socioeconomic Status		Middle Socioeconomic Status		Lower Socioeconomic Status		Average Scale Score
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	
Georgia							
Grade 4	36 (1.2)	484 (3.2)	52 (1.1)	459 (3.4)	12 (0.8)	440 (9.6)	10.5 (0.04)
Grade 5	36 (1.4)	516 (3.6)	51 (1.5)	480 (3.3)	13 (1.4)	443 (9.6)	10.5 (0.05)
Italy							
Grade 4	26 (1.4)	546 (2.5)	51 (1.2)	510 (2.7)	23 (1.1)	477 (3.2)	10.0 (0.06)
Grade 5	26 (1.4)	580 (3.7)	52 (1.0)	543 (3.2)	22 (1.2)	507 (3.4)	10.1 (0.06)
Jordan							
Grade 4	6 (0.6)	482 (7.1)	49 (1.3)	437 (4.8)	45 (1.5)	395 (7.0)	8.9 (0.05)
Grade 5	6 (0.6)	505 (8.5)	54 (1.4)	456 (4.8)	41 (1.7)	406 (7.0)	9.0 (0.05)
Korea, Rep. of							
Grade 4	64 (1.5)	601 (2.3)	32 (1.3)	556 (3.8)	3 (0.4)	514 (11.0)	11.6 (0.05)
Grade 5	58 (1.5)	633 (2.2)	38 (1.3)	597 (3.2)	5 (0.6)	553 (8.3)	11.4 (0.05)
Kosovo							
Grade 4	16 (1.2)	460 (5.8)	51 (1.3)	419 (3.5)	33 (1.7)	381 (6.3)	9.5 (0.06)
Grade 5	- -	- -	- -	- -	- -	- -	- -
Montenegro							
Grade 4	31 (1.1)	492 (3.3)	53 (0.9)	458 (2.0)	16 (0.7)	423 (3.6)	10.2 (0.04)
Grade 5	30 (1.1)	518 (3.1)	54 (1.2)	481 (2.2)	16 (0.8)	430 (4.4)	10.2 (0.04)
North Macedonia							
Grade 4	18 (1.2)	494 (5.0)	47 (1.2)	447 (3.4)	36 (1.5)	404 (4.8)	9.4 (0.08)
Grade 5	18 (1.3)	512 (4.3)	48 (1.4)	459 (3.6)	33 (1.7)	412 (4.3)	9.4 (0.07)
Slovenia							
Grade 4	45 (1.1)	558 (2.4)	47 (1.1)	513 (2.2)	8 (0.5)	462 (5.4)	10.8 (0.03)
Grade 5	44 (1.2)	594 (2.0)	47 (1.1)	554 (2.4)	9 (0.6)	511 (4.4)	10.8 (0.04)
Sweden							
Grade 4	56 (1.8)	568 (2.4)	39 (1.4)	511 (3.7)	6 (0.6)	456 (6.2)	11.3 (0.07)
Grade 5	- -	- -	- -	- -	- -	- -	- -

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