

Exhibit 6.3: Instruction Affected by Reading Resource Shortages – Principals' Reports

Students' Results based on Principals' Reports

Assessed Fourth Grade Students at the End of the School Year

☒ Assessed one year later than originally scheduled

☐ **Delayed Assessment of Fourth Grade Cohort at the Beginning of Fifth Grade**

Country	Not Affected		Somewhat Affected		Affected A Lot		Average Scale Score
	Percent of Students	Average Achievement	Percent of Students	Average Achievement	Percent of Students	Average Achievement	
Bulgaria	83 (3.1)	544 (3.4)	15 (3.0)	516 (14.3)	2 ~	~ ~	12.4 (0.15)
Netherlands	r 73 (4.4)	525 (4.1)	27 (4.4)	529 (4.8)	1 ~	~ ~	11.7 (0.13)
Australia ☒	65 (3.8)	545 (3.1)	33 (3.6)	532 (4.6)	1 ~	~ ~	11.5 (0.18)
Poland	57 (4.2)	553 (3.0)	42 (4.2)	544 (3.4)	1 ~	~ ~	11.3 (0.15)
Singapore	56 (0.0)	586 (4.2)	31 (0.0)	589 (5.5)	13 (0.0)	589 (8.7)	10.9 (0.00)
Denmark	55 (4.1)	538 (3.3)	43 (4.0)	540 (3.7)	2 ~	~ ~	11.4 (0.12)
Sweden	r 55 (5.3)	547 (4.3)	43 (5.2)	545 (5.8)	2 ~	~ ~	11.2 (0.18)
Norway (5)	54 (4.1)	540 (2.4)	46 (4.1)	537 (3.3)	0 ~	~ ~	11.3 (0.14)
United Arab Emirates	s 53 (2.2)	530 (3.5)	35 (2.0)	473 (4.0)	12 (1.3)	506 (5.3)	10.8 (0.13)
Qatar	53 (3.4)	496 (5.4)	25 (2.7)	474 (7.2)	22 (3.1)	474 (10.6)	10.5 (0.28)
United States	53 (7.2)	558 (7.7)	46 (7.3)	534 (11.8)	2 ~	~ ~	11.2 (0.29)
New Zealand	r 52 (4.3)	532 (5.2)	45 (4.4)	511 (5.1)	2 ~	~ ~	11.2 (0.14)
Czech Republic	51 (4.0)	542 (3.9)	49 (4.0)	537 (2.9)	0 ~	~ ~	11.1 (0.11)
Finland	50 (4.1)	559 (2.5)	49 (4.2)	539 (3.5)	1 ~	~ ~	11.2 (0.14)
Croatia	42 (4.4)	559 (3.3)	58 (4.4)	556 (3.7)	0 ~	~ ~	10.6 (0.14)
Kazakhstan	42 (3.2)	506 (3.6)	41 (3.5)	500 (5.3)	17 (2.5)	505 (4.9)	10.1 (0.19)
England ☒	42 (4.2)	563 (4.1)	58 (4.2)	556 (3.5)	1 ~	~ ~	10.8 (0.14)
Cyprus	41 (4.5)	519 (4.6)	57 (4.5)	504 (3.4)	2 ~	~ ~	10.7 (0.17)
Lithuania	s 41 (4.9)	549 (3.9)	59 (4.8)	549 (3.1)	1 ~	~ ~	10.6 (0.15)
Bahrain	39 (2.6)	477 (6.2)	41 (2.6)	443 (4.9)	21 (2.4)	456 (8.4)	9.8 (0.15)
Spain	38 (3.0)	531 (3.3)	61 (3.2)	515 (2.9)	2 ~	~ ~	10.6 (0.10)
Hungary	36 (3.9)	539 (5.8)	63 (4.0)	538 (4.7)	1 ~	~ ~	10.6 (0.15)
Austria	36 (3.8)	535 (3.9)	64 (3.8)	527 (2.6)	0 ~	~ ~	10.7 (0.10)
Georgia	35 (3.7)	500 (3.7)	62 (3.7)	492 (3.4)	3 (1.1)	482 (22.2)	10.6 (0.14)
Slovak Republic	35 (3.1)	540 (4.5)	65 (3.2)	524 (3.4)	1 ~	~ ~	10.5 (0.09)
Slovenia	r 34 (4.0)	517 (3.7)	66 (4.0)	520 (2.5)	0 ~	~ ~	10.8 (0.10)
Russian Federation	34 (3.2)	582 (5.0)	59 (3.8)	560 (4.4)	7 (2.0)	554 (12.3)	10.2 (0.16)
Israel ☒	33 (3.9)	526 (5.9)	58 (4.2)	510 (4.3)	9 (2.1)	462 (17.2)	10.0 (0.15)
Malta	31 (5.9)	525 (7.8)	60 (5.5)	507 (5.5)	9 (3.8)	503 (15.6)	10.0 (0.26)
Uzbekistan	30 (3.8)	441 (4.5)	49 (4.2)	433 (4.2)	21 (3.5)	439 (6.0)	9.5 (0.22)
Serbia	30 (3.7)	524 (4.4)	70 (3.8)	509 (4.1)	1 ~	~ ~	10.3 (0.13)
Ireland	27 (3.9)	586 (5.0)	72 (4.0)	574 (3.0)	1 ~	~ ~	10.2 (0.14)
Brazil ☒	26 (2.7)	481 (9.3)	73 (2.9)	398 (7.4)	1 ~	~ ~	10.1 (0.12)
Belgium (Flemish)	25 (3.5)	516 (5.7)	75 (3.5)	508 (2.8)	0 ~	~ ~	10.4 (0.10)
Latvia	24 (3.5)	526 (5.3)	75 (3.5)	528 (3.0)	1 ~	~ ~	10.3 (0.13)
Oman	22 (2.8)	437 (9.3)	59 (3.4)	423 (5.4)	19 (3.1)	439 (6.9)	9.2 (0.18)
Montenegro	21 (1.0)	484 (4.6)	77 (1.0)	488 (1.6)	2 ~	~ ~	9.7 (0.03)
Germany	r 21 (3.0)	535 (5.5)	79 (3.0)	520 (2.8)	0 ~	~ ~	10.3 (0.09)
France	19 (3.2)	527 (6.7)	79 (3.3)	513 (2.5)	2 ~	~ ~	10.0 (0.10)
Northern Ireland	18 (3.4)	558 (5.7)	81 (3.4)	568 (3.4)	1 ~	~ ~	10.0 (0.12)
Portugal	17 (2.6)	534 (8.1)	83 (2.6)	517 (2.4)	0 ~	~ ~	10.1 (0.09)
Iran, Islamic Rep. of ☒	14 (3.2)	432 (9.7)	73 (3.8)	406 (6.3)	13 (2.4)	431 (8.8)	9.1 (0.20)
Azerbaijan	13 (2.9)	436 (10.5)	66 (4.1)	439 (4.7)	20 (3.3)	445 (10.0)	8.6 (0.18)
Saudi Arabia	13 (3.1)	458 (10.3)	69 (4.3)	444 (4.8)	18 (3.7)	462 (12.4)	8.6 (0.19)
Albania	13 (2.3)	535 (11.4)	66 (3.9)	507 (3.6)	21 (3.4)	519 (7.4)	8.8 (0.16)
Egypt	11 (1.9)	407 (13.7)	81 (2.7)	375 (6.4)	7 (2.3)	375 (14.0)	9.2 (0.13)
Chinese Taipei	11 (2.1)	549 (4.8)	74 (3.2)	544 (2.7)	15 (2.6)	541 (5.0)	8.6 (0.13)
Belgium (French)	11 (2.6)	500 (9.4)	89 (2.6)	494 (3.0)	0 ~	~ ~	9.7 (0.10)
Italy	11 (2.7)	546 (10.3)	89 (2.7)	536 (2.1)	0 ~	~ ~	9.7 (0.09)
South Africa ☒	8 (1.8)	444 (24.7)	89 (2.0)	272 (5.1)	3 (1.1)	295 (30.0)	9.2 (0.09)
Macao SAR	8 (0.1)	546 (3.2)	55 (0.1)	534 (1.6)	37 (0.1)	536 (1.6)	7.6 (0.00)
Türkiye	7 (1.7)	513 (8.4)	59 (3.8)	495 (4.9)	34 (3.8)	496 (6.8)	7.8 (0.15)
Kosovo	5 (1.5)	424 (15.1)	74 (3.2)	420 (3.9)	21 (3.1)	422 (5.7)	8.3 (0.14)
Hong Kong SAR	2 ~	~ ~	66 (3.8)	573 (3.6)	31 (3.8)	572 (4.5)	7.6 (0.14)
Jordan	2 ~	~ ~	80 (3.0)	375 (6.3)	18 (2.8)	403 (12.1)	8.2 (0.12)
Morocco	2 ~	~ ~	91 (2.5)	367 (4.4)	7 (2.3)	449 (31.9)	8.8 (0.10)
North Macedonia	0 ~	~ ~	84 (3.6)	443 (6.3)	16 (3.6)	440 (12.7)	8.0 (0.11)
International Average	31 (0.5)	519 (1.0)	61 (0.5)	498 (0.6)	8 (0.3)	472 (2.7)	
Benchmarking Participants							
Dubai, UAE	s 67 (0.3)	577 (1.8)	24 (0.3)	558 (2.9)	9 (0.2)	552 (4.8)	11.6 (0.02)
Alberta, Canada	62 (5.3)	545 (5.0)	37 (5.3)	535 (6.2)	1 ~	~ ~	11.8 (0.23)
Moscow City, Russian Federation	62 (3.7)	597 (2.4)	34 (3.5)	598 (3.5)	4 (1.5)	623 (11.9)	11.8 (0.20)
Quebec, Canada	59 (5.0)	553 (3.3)	41 (5.0)	550 (5.1)	0 ~	~ ~	11.5 (0.18)
Newfoundland & Labrador, Canada	r 51 (8.5)	525 (5.7)	46 (8.1)	520 (4.0)	4 (2.5)	558 (15.0)	11.2 (0.28)
British Columbia, Canada	r 46 (4.8)	546 (5.7)	53 (4.6)	532 (4.9)	2 ~	~ ~	10.9 (0.17)
Abu Dhabi, UAE	r 45 (3.5)	502 (6.3)	44 (2.2)	436 (5.8)	11 (2.4)	481 (19.1)	10.4 (0.26)
South Africa (6) ☒	8 (2.1)	512 (28.5)	86 (2.2)	368 (5.5)	6 (2.1)	399 (28.2)	9.2 (0.15)

This PIRLS context questionnaire scale was established in 2011 based on the combined response distribution of countries that participated in PIRLS 2011. 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.

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

Exhibit 6.3: Instruction Affected by Reading Resource Shortages – Principals' Reports

Students' Results based on Principals' Reports

About the Scale

Students were scored according to their principals' responses regarding thirteen school and classroom resources on the *Instruction Affected by Reading Resource Shortages* scale. Cut scores divide the scale into three categories. Students in schools where instruction was **Not Affected** by resource shortages had a score at or above the cut score corresponding to their principals reporting that shortages affected instruction "not at all" for seven of the thirteen resources and "a little" for the other six, on average. Students in schools where instruction was **Affected A Lot** had a score at or below the cut score corresponding to their principals reporting that shortages affected instruction "a lot" for seven of the thirteen resources and "some" for the other six, on average. All other students attended schools where instruction was **Somewhat Affected** by resource shortages.

