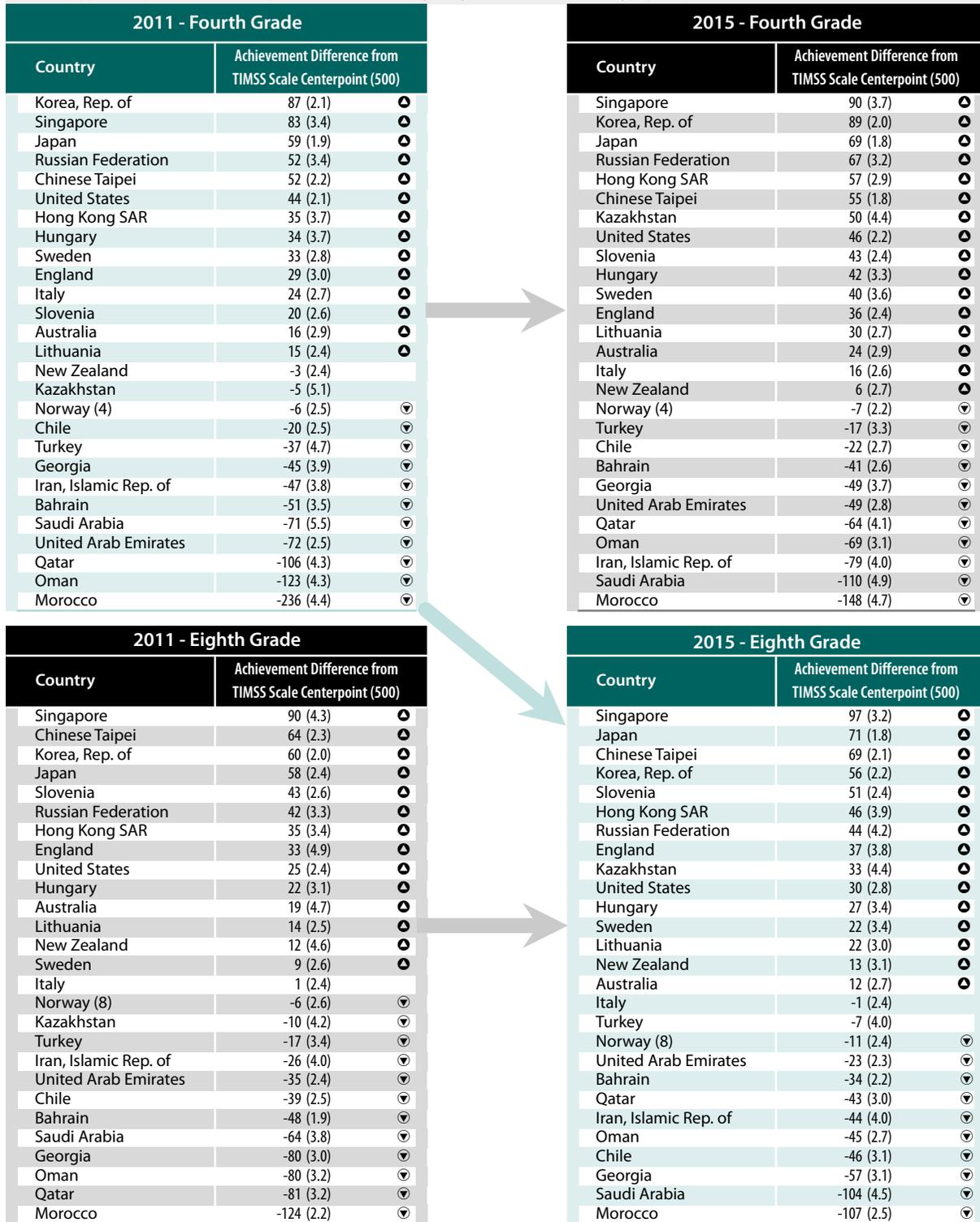


Exhibit 1.9: Relative Achievement of 2011 Fourth Grade Cohort as Eighth Grade Students in 2015 – Countries Assessed Both Grades in Both Assessment Years

Follow the green arrow pointing diagonally downwards to compare relative performance among the TIMSS countries at the fourth grade in 2011 (upper-left panel) to relative performance at the eighth grade in 2015 (lower-right panel).



SOURCE: IEA's Trends in International Mathematics and Science Study – TIMSS 2015

- ▲ Country average significantly higher than the centerpoint of the TIMSS scale
- ▼ Country average significantly lower than the centerpoint of the TIMSS scale

Trend results for Lithuania do not include students taught in Polish or in Russian.

() Standard errors appear in parentheses. Because of rounding some results may appear inconsistent.

Exhibit 1.9: Relative Achievement of 2011 Fourth Grade Cohort as Eighth Grade Students in 2015 – Countries Assessed Both Grades in Both Assessment Years (Continued)

2011 - Fourth Grade			2015 - Fourth Grade		
Country	Achievement Difference from TIMSS Scale Centerpoint (500)		Country	Achievement Difference from TIMSS Scale Centerpoint (500)	
Benchmarking Participants			Benchmarking Participants		
Florida, US	45 (3.7)	▲	Florida, US	49 (4.8)	▲
Ontario, Canada	28 (3.1)	▲	Ontario, Canada	30 (2.5)	▲
Quebec, Canada	16 (2.7)	▲	Quebec, Canada	25 (4.1)	▲
Dubai, UAE	-39 (2.5)	▼	Dubai, UAE	18 (1.8)	▲
Abu Dhabi, UAE	-89 (5.0)	▼	Abu Dhabi, UAE	-85 (5.6)	▼

2011 - Eighth Grade			2015 - Eighth Grade		
Country	Achievement Difference from TIMSS Scale Centerpoint (500)		Country	Achievement Difference from TIMSS Scale Centerpoint (500)	
Benchmarking Participants			Benchmarking Participants		
Florida, US	30 (7.4)	▲	Quebec, Canada	30 (4.4)	▲
Ontario, Canada	21 (2.4)	▲	Dubai, UAE	25 (2.0)	▲
Quebec, Canada	20 (2.6)	▲	Ontario, Canada	24 (2.5)	▲
Dubai, UAE	-15 (2.6)	▼	Florida, US	8 (6.0)	▲
Abu Dhabi, UAE	-39 (3.9)	▼	Abu Dhabi, UAE	-46 (5.6)	▼

- ▲ Country average significantly higher than the centerpoint of the TIMSS scale
- ▼ Country average significantly lower than the centerpoint of the TIMSS scale

SOURCE: IEA's Trends in International Mathematics and Science Study – TIMSS 2015