

Exhibit 13.1: Instructional Time Spent on Science
Students' Results based on Principals' and Teachers' Reports
About the Scale

Total Instructional Hours Per Year	=	Principal Reports of School Days per Year	×	Principal Reports of Instructional Hours per Day
Hours per Year for Science Instruction	=	$\frac{\text{Teacher Reports of Weekly Science Instructional Hours}}{\text{Principal Reports of School Days per Week}}$	×	Principal Reports of School Days per Year

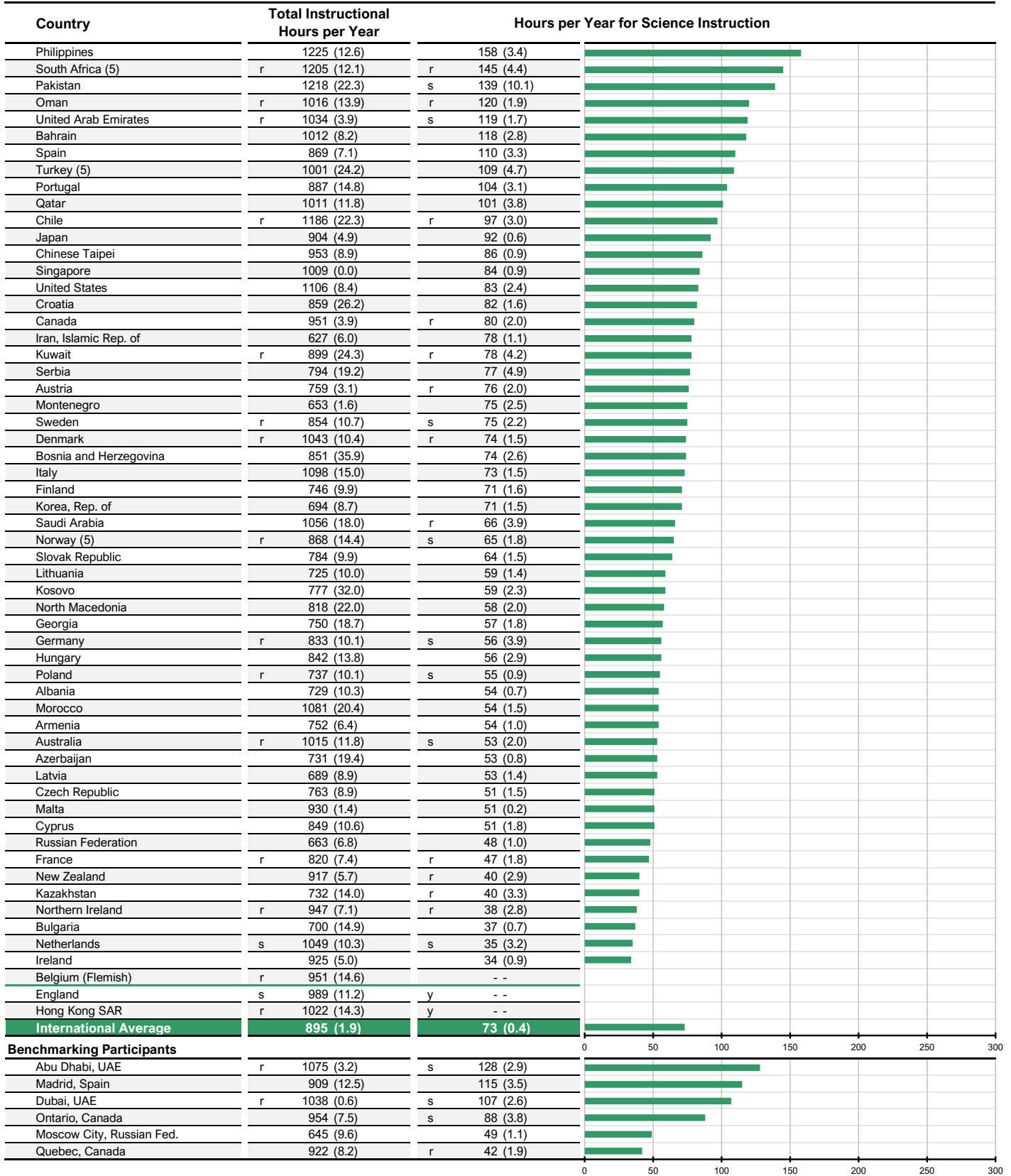
SOURCE: IEA's Trends in International Mathematics and Science Study - TIMSS 2019
 Downloaded from <http://timss2019.org/download>



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Exhibit 13.2: Instructional Time Spent on Science

Students' Results based on Principals' and Teachers' Reports



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

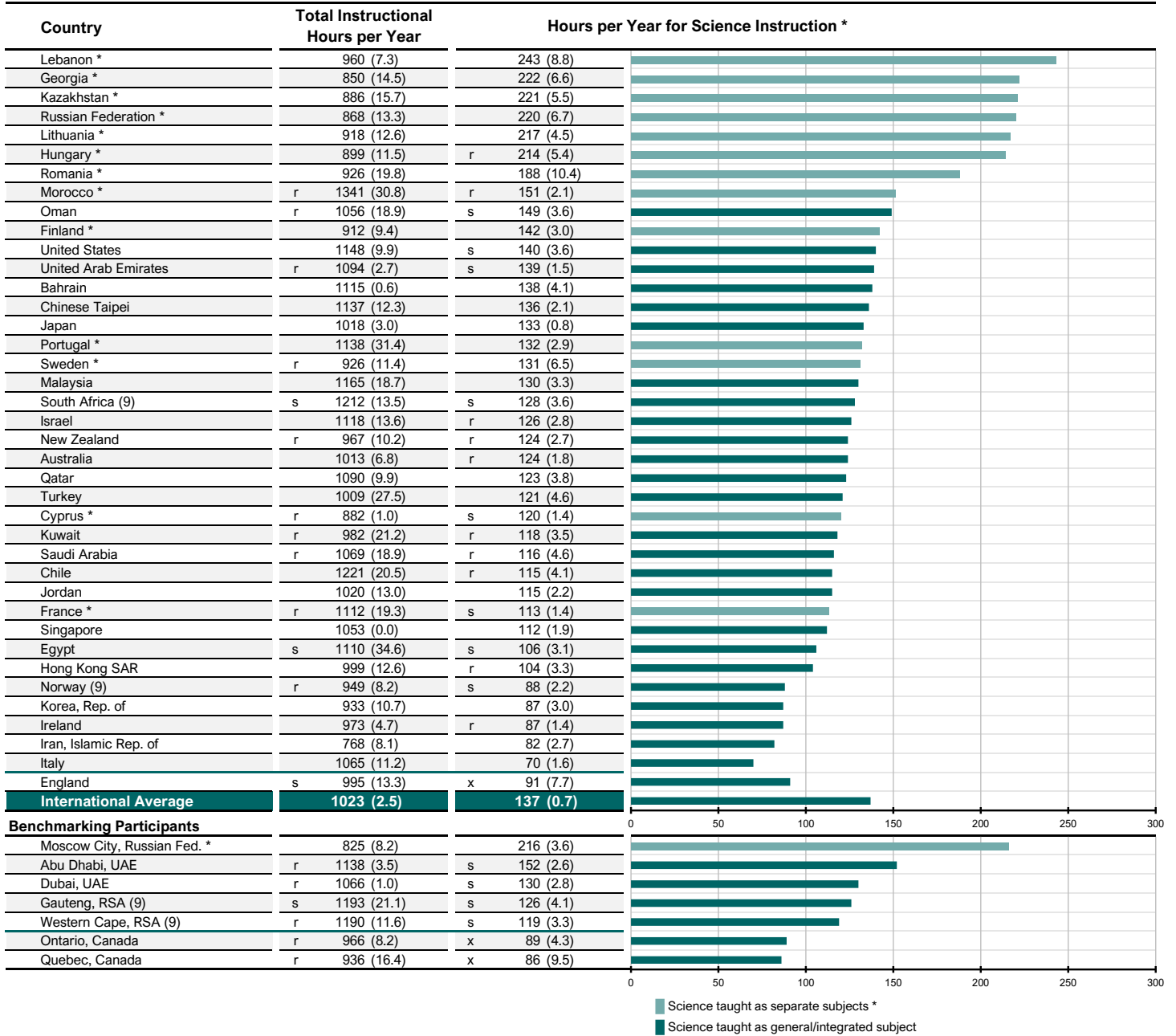
A dash (-) indicates comparable data not available.

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

Exhibit 13.3: Instructional Time Spent on Science

Students' Results based on Principals' and Teachers' Reports



* For countries teaching science as separate subjects, hours per year for science instruction is based on total hours across subjects.

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An "x" indicates data are available for at least 40% but less than 50% of the students—interpret with caution.

Exhibit 13.3: Instructional Time Spent on Science

Students' Results based on Principals' and Teachers' Reports

(Continued)

Separate Science Results

Country	Hours per Year for Instruction				
	All Science Subjects	Biology	Chemistry	Physics	Earth Science
Lebanon	243 (8.8)	83 (4.7)	78 (3.3)	r 82 (3.8)	- -
Georgia	222 (6.6)	53 (2.7)	55 (2.7)	58 (2.1)	r 55 (2.8)
Kazakhstan	221 (5.5)	56 (2.0)	57 (2.3)	55 (1.4)	53 (1.9)
Russian Federation	220 (6.7)	54 (2.4)	54 (1.7)	60 (3.0)	53 (1.4)
Lithuania	217 (4.5)	36 (1.9)	62 (1.7)	63 (1.7)	57 (1.6)
Hungary	r 214 (5.4)	r 52 (1.9)	r 60 (2.3)	r 50 (2.5)	r 54 (1.7)
Romania	188 (10.4)	41 (3.7)	r 75 (5.3)	72 (4.7)	- -
Morocco	r 151 (2.1)	r 38 (0.6)	r 38 (0.7)	r 38 (0.7)	r 38 (0.6)
Finland	142 (3.0)	33 (1.1)	38 (0.9)	38 (0.9)	33 (1.1)
Portugal	132 (2.9)	37 (0.7)	44 (1.2)	44 (1.2)	6 (0.1)
Sweden	131 (6.5)	44 (2.6)	42 (2.2)	45 (2.5)	- -
Cyprus	s 120 (1.4)	s 25 (0.3)	s 26 (0.6)	r 40 (0.5)	r 28 (0.8)
France	s 113 (1.4)	- -	- -	- -	- -
International Average	181 (1.5)	45 (0.6)	51 (0.6)	52 (0.6)	40 (0.5)
Benchmarking Participants					
Moscow City, Russian Fed.	216 (3.6)	52 (1.3)	54 (1.4)	57 (2.1)	53 (2.3)

France teaches the science subjects in two courses: one for biology and Earth science and one for chemistry and physics.

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