

## Exhibit 8: Instructional Time Devoted to Mathematics and Science Curricula at the Fourth Grade

Reported by National Research Coordinators

Country	Percentage of Total Instructional Time	
	Mathematics	Science
Albania	16%	8%
Armenia	14%	7%
Australia	Varies by state (approximately 18%)	Varies by state (approximately 7%)
Austria	Approximately 18%	Approximately 14%
Azerbaijan	16%	8%
Bahrain	20%	13%
Belgium (Flemish)	Not specified in curriculum	Not specified in curriculum
Bosnia and Herzegovina	20%	10%
Bulgaria	18%	7%
Canada	15–20% (varies by province)	5–15% (varies by province)
Chile	12–20% (recommended)	7–10% (recommended)
Chinese Taipei	10–15%	8–11%
Croatia	22%	17%
Cyprus	20%	6%
Czech Republic	20%	7%
Denmark	17%	10%
England	Not specified in curriculum	Not specified in curriculum
Finland	14%	10%
France	21%	8%
Georgia	20%	8%
Germany	Varies by state (approximately 20%)	Varies by state (approximately 15%)
Hong Kong SAR	12–15%	12–15% (recommended)
Hungary	13–20%	4–8%
Iran, Islamic Rep. of	16%	12%
Ireland	19%	4% (recommended)
Italy	Not specified in curriculum	Not specified in curriculum
Japan	18%	11%
Kazakhstan	18%	7%
Korea, Rep. of	14%	10%
Kosovo	21%	8%
Kuwait	14%	6%
Latvia	19%	8%
Lithuania	18%	8%
Malta	15%	15%
Montenegro	19%	10%
Morocco	16%	5%
Netherlands	Not specified in curriculum	Not specified in curriculum
New Zealand	Not specified in curriculum	Not specified in curriculum
North Macedonia	21%	9%
Northern Ireland	Not specified in curriculum	Not specified in curriculum
Norway	12–17%	2–7%
Oman	15%	13%
Pakistan	20%	20%
Philippines	14%	14%
Poland	16%	8%
Portugal	28%	12%
Qatar	Not specified in curriculum	9%
Russian Federation	16%	8%
Saudi Arabia	16%	9%

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(Continued)

Country	Percentage of Total Instructional Time	
	Mathematics	Science
Serbia	21%	8–13%
Singapore	20%	8%
Slovak Republic	15%	11%
South Africa	22%	13%
Spain	Varies by region (approximately 15–18%)	Varies by region (approximately 6–10%)
Sweden	15%	12%
Turkey	Not specified in curriculum, but approximately 20%	Not specified in curriculum, but approximately 11%
United Arab Emirates	20%	12%
United States	Varies by school district	Varies by school district
<b>Benchmarking Participants</b>		
Ontario, Canada	20%	Not specified in curriculum
Quebec, Canada	Not specified in curriculum	Not specified in curriculum
Moscow City, Russian Fed.	16%	8%
Madrid, Spain	Same as Spain	
Abu Dhabi, UAE	Same as United Arab Emirates	
Dubai, UAE	Same as United Arab Emirates	