

Exhibit 10: Grades Mathematics and Science First Taught by Specialist Teachers

Reported by National Research Coordinators

Country	Grades Mathematics and Science First Taught by Specialist Teachers	
	Mathematics	Science
Albania	Grade 5	Grade 5
Armenia	Grade 1	Grade 2
Australia	Typically Year 7 (Year 8 in South Australia), but varies by school	Typically Year 7 (Year 8 in South Australia), but varies by school
Austria	Grade 5	Grade 5
Azerbaijan	Grade 5	Grade 6, 7, or 8
Bahrain	Grade 4	Grade 4
Belgium (Flemish)	Grade 7	Grade 7
Bosnia and Herzegovina	Grade 5 or 6 (varies by school)	Grade 5 or 6 (varies by school)
Bulgaria	Typically Grade 5, but sometimes earlier	Typically Grade 5, but sometimes earlier
Canada	Typically Grade 7 (varies by province and by school)	Typically Grade 7 (varies by province and by school)
Chile	Typically Grade 7 or 8; all students must be taught by subject specialists beginning in Grade 9	Typically Grade 7 or 8; all students must be taught by subject specialists beginning in Grade 9
Chinese Taipei	Grade 7	Grade 7
Croatia	Grade 5	Grade 5
Cyprus	Grade 7	Grade 7
Czech Republic	Typically Grade 6, but sometimes Grade 3 or 4 (varies by school)	Typically Grade 6, but sometimes Grade 3 or 4 (varies by school)
Denmark	Grade 1; teachers hold grade-specific subject specializations	Grade 1; teachers hold grade-specific subject specializations
Egypt	Grade 4	Grade 4
England	Typically Year 7 (Grade 6), but sometimes earlier or later	Typically Year 7
Finland	Typically Grade 7	Typically Grade 7
France	Grade 6	Grade 6
Georgia	Grade 5	Grade 5
Germany	Grade 5	Grade 5
Hong Kong SAR	Typically the beginning of secondary education (varies by school)	Grade 7
Hungary	Grade 5	Grade 5
Iran, Islamic Rep. of	Grade 7	Grade 7
Ireland	Grade 7	Grade 7
Israel	Grade 3 (recommended)	Grade 4
Italy	Grade 6	Grade 6
Japan	Grade 7	Grade 7
Jordan	Grade 4	Grade 4
Kazakhstan	Grade 5	Grade 5
Korea, Rep. of	Typically Grade 7	Grade 7
Kosovo	Grade 6	Grade 6
Kuwait	Grade 1	Grade 1
Latvia	Typically Grade 5, but may be in Grades 1–7 (varies by school)	Typically Grade 5, sometimes earlier (varies by school)
Lebanon	Grade 7	Grade 7
Lithuania	Grade 5	Grade 5
Malaysia	Typically Primary 1 (Grade 1)	Typically Primary 1 (Grade 1)
Malta	Year 7	Year 3
Montenegro	Grade 6	Grade 6
Morocco	Grade 7	Grade 7
Netherlands	Grade 7	Grade 7
New Zealand	Year 9 (Grade 8)	Year 9 (Grade 8)

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(Continued)

Country	Grades Mathematics and Science First Taught by Specialist Teachers	
	Mathematics	Science
North Macedonia	Grade 6	Grade 5
Northern Ireland	Typically Year 8 (Grade 6)	Typically Year 8 (Grade 6)
Norway	Varies by teachers' education	Varies by teachers' education
Oman	Grade 5	Grade 5
Pakistan	Beginning of secondary school	Beginning of secondary school
Philippines	Typically Grade 7 (varies by teachers' education)	Typically Grade 7 (varies by teachers' education)
Poland	Grade 4	Grade 4
Portugal	Grade 5	Grade 5 for natural sciences; Grade 7 for physical sciences, including physics and chemistry
Qatar	Grade 3	Typically Grade 3
Romania	Grade 5	Grade 5
Russian Federation	Grade 5	Grade 5 for biology and geography; Grade 7 for physics; Grade 8 for chemistry
Saudi Arabia	Grade 7	Grade 7
Serbia	Grade 5	Grade 5
Singapore	Secondary 1 (Grade 7)	Secondary 1 (Grade 7)
Slovak Republic	Typically Grade 5 (varies by school)	Typically Grade 5 (varies by school)
South Africa	Typically Grade 7	Typically Grade 7
Spain	Grade 7	Grade 7
Sweden	Typically Grade 4	Typically Grade 4
Turkey	Grade 5	Grade 5
United Arab Emirates	Grade 4	Grade 4
United States	Typically Grade 6 (varies across states, districts, and schools)	Typically Grade 6 (varies across states, districts, and schools)
Benchmarking Participants		
Ontario, Canada	Grade 9	Grade 11
Quebec, Canada	Secondary 1 (Grade 7)	Secondary 1 (Grade 7)
Moscow City, Russian Fed.	Grade 5	Grade 5 for biology and geography; Grade 7 for physics; Grade 8 for chemistry
Gauteng, South Africa	Same as South Africa	
Western Cape, South Africa	Same as South Africa	
Madrid, Spain	Same as Spain	
Abu Dhabi, UAE	Same as United Arab Emirates	
Dubai, UAE	Same as United Arab Emirates	