

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

Reported by National Research Coordinators

2019

		Typically Year 7 (Year 8 in South Australia), but varies by school
	school	school
Austria	Grade 5	Grade 5
Azerbaijan	Grade 5	Grade 6, 7, or 8
Bahrain	Grade 4	Grade 4
		Grade 7
		Grade 5 or 6 (varies by school)
		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
England	Typically Year 7 (Grade 6), but sometimes earlier or later	Typically Year 7
Finland	Typically Grade 7	Typically Grade 7
	Grade 5	Grade 5
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
Malaysia	Typically Primary 1 (Grade 1)	Typically

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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	