

## Exhibit 12: Number of TIMSS Science Topics Intended to Be Taught by the End of Fourth Grade

Reported by National Research Coordinators

Country	All Science (26 Topics)			Life Science (7 Topics)			Physical Science (12 Topics)			Earth Science (7 Topics)		
	Topics Taught to All or Almost All Students	Topics Taught to Only the More Able Students (Top Track)	Not Included in the Curriculum Through Grade 4	Topics Taught to All or Almost All Students	Topics Taught to Only the More Able Students (Top Track)	Not Included in the Curriculum Through Grade 4	Topics Taught to All or Almost All Students	Topics Taught to Only the More Able Students (Top Track)	Not Included in the Curriculum Through Grade 4	Topics Taught to All or Almost All Students	Topics Taught to Only the More Able Students (Top Track)	Not Included in the Curriculum Through Grade 4
Albania	18	0	8	3	0	4	12	0	0	3	0	4
Armenia	19	0	7	6	0	1	7	0	5	6	0	1
Australia	16	6	4	6	1	0	4	4	4	6	1	0
Austria	24	0	2	7	0	0	12	0	0	5	0	2
Azerbaijan	12	0	14	5	0	2	2	0	10	5	0	2
Bahrain	26	0	0	7	0	0	12	0	0	7	0	0
Belgium (Flemish)	12	0	14	6	0	1	3	0	9	3	0	4
Bosnia and Herzegovina	14	0	12	5	0	2	4	0	8	5	0	2
Bulgaria	22	0	4	6	0	1	11	0	1	5	0	2
Canada	26	0	0	7	0	0	12	0	0	7	0	0
Chile	19	0	7	6	0	1	8	0	4	5	0	2
Chinese Taipei	11	0	15	4	0	3	7	0	5	0	0	7
Croatia	16	0	10	6	0	1	6	0	6	4	0	3
Cyprus	21	0	5	6	0	1	9	0	3	6	0	1
Czech Republic	11	2	13	7	0	0	1	0	11	3	2	2
Denmark	19	0	7	6	0	1	6	0	6	7	0	0
England	21	0	5	7	0	0	11	0	1	3	0	4
Finland	9	0	17	5	0	2	3	0	9	1	0	6
France	5	12	9	2	4	1	2	5	5	1	3	3
Georgia	19	0	7	6	0	1	9	0	3	4	0	3
Germany	26	0	0	7	0	0	12	0	0	7	0	0
Hong Kong SAR	9	2	15	2	1	4	5	1	6	2	0	5
Hungary	17	0	9	5	0	2	8	0	4	4	0	3
Iran, Islamic Rep. of	22	0	4	6	0	1	11	0	1	5	0	2
Ireland	19	2	5	6	0	1	11	1	0	2	1	4
Italy	22	0	4	7	0	0	11	0	1	4	0	3
Japan	18	1	7	4	0	3	9	1	2	5	0	2
Kazakhstan	26	0	0	7	0	0	12	0	0	7	0	0
Korea, Rep. of	12	2	12	4	0	3	5	1	6	3	1	3
Kosovo	26	0	0	7	0	0	12	0	0	7	0	0
Kuwait	26	0	0	7	0	0	12	0	0	7	0	0
Latvia	23	0	3	7	0	0	10	0	2	6	0	1
Lithuania	20	0	6	6	0	1	8	0	4	6	0	1
Malta	18	0	8	5	0	2	9	0	3	4	0	3
Montenegro	26	0	0	7	0	0	12	0	0	7	0	0
Morocco	16	0	10	6	0	1	8	0	4	2	0	5
Netherlands	-	-	-	-	-	-	-	-	-	-	-	-
New Zealand	20	5	1	5	1	1	9	3	0	6	1	0
North Macedonia	16	3	7	5	1	1	7	0	5	4	2	1
Northern Ireland	23	0	3	6	0	1	11	0	1	6	0	1
Norway	9	0	17	4	0	3	2	0	10	3	0	4
Oman	21	0	5	7	0	0	10	0	2	4	0	3
Pakistan	26	0	0	7	0	0	12	0	0	7	0	0
Philippines	26	0	0	7	0	0	12	0	0	7	0	0

A dash (-) indicates data not provided.  
Because of rounding some results may appear inconsistent.

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Poland	7	0	19	5	0	2	2	0	10	0	0	7
Portugal	26	0	0	7	0	0	12	0	0	7	0	0
Qatar	12	6	8	4	2	1	6	2	4	2	2	3
Russian Federation	13	0	13	6	0	1	1	0	11	6	0	1
Saudi Arabia	26	0	0	7	0	0	12	0	0	7	0	0
Serbia	21	0	5	7	0	0	12	0	0	2	0	5
Singapore	9	0	17	3	0	4	6	0	6	0	0	7
Slovak Republic	21	0	5	6	0	1	11	0	1	4	0	3
South Africa	19	0	7	5	0	2	9	0	3	5	0	2
Spain	22	0	4	7	0	0	9	0	3	6	0	1
Sweden	25	0	1	7	0	0	12	0	0	6	0	1
Turkey	14	1	11	3	0	4	8	0	4	3	1	3
United Arab Emirates	26	0	0	7	0	0	12	0	0	7	0	0
United States	24	0	2	7	0	0	10	0	2	7	0	0
<b>International Average</b>	<b>18</b>	<b>1</b>	<b>7</b>	<b>6</b>	<b>0</b>	<b>1</b>	<b>8</b>	<b>0</b>	<b>3</b>	<b>4</b>	<b>0</b>	<b>2</b>
<b>Benchmarking Participants</b>												
Ontario, Canada	19	0	7	5	0	2	9	0	3	5	0	2
Quebec, Canada	16	0	10	4	0	3	10	0	2	2	0	5
Moscow City, Russian Fed.	13	0	13	6	0	1	1	0	11	6	0	1
Madrid, Spain	Same as Spain											
Abu Dhabi, UAE	Same as United Arab Emirates											
Dubai, UAE	Same as United Arab Emirates											