

**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 (23 topics)			Life Science (7 topics)			Physical Science (9 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
Armenia	23	0	0	7	0	0	9	0	0	7	0	0
Australia	8	6	8	3	1	3	2	3	3	3	2	2
Bahrain	20	0	3	5	0	2	9	0	0	6	0	1
Belgium (Flemish)	23	0	0	7	0	0	9	0	0	7	0	0
Bulgaria	19	0	4	6	0	1	7	0	2	6	0	1
Canada	13	0	10	5	0	2	6	0	3	2	0	5
Chile	17	0	6	6	0	1	6	0	3	5	0	2
Chinese Taipei	15	0	8	6	0	1	7	0	2	2	0	5
Croatia	6	0	17	3	0	4	1	0	8	2	0	5
Cyprus	19	0	4	6	0	1	7	0	2	6	0	1
Czech Republic	12	3	8	7	0	0	2	0	7	3	3	1
Denmark	20	2	1	6	0	1	8	1	0	6	1	0
England	22	0	1	7	0	0	9	0	0	6	0	1
Finland	13	0	10	4	0	3	5	0	4	4	0	3
France	16	1	6	5	1	1	5	0	4	6	0	1
Georgia	14	1	8	5	0	2	5	0	4	4	1	2
Germany	20	0	3	6	0	1	9	0	0	5	0	2
Hong Kong SAR	14	1	8	5	0	2	5	0	4	4	1	2
Hungary	13	0	10	6	0	1	6	0	3	1	0	6
Indonesia	11	0	12	5	0	2	4	0	5	2	0	5
Iran, Islamic Rep. of	23	0	0	7	0	0	9	0	0	7	0	0
Ireland	17	0	6	4	0	3	9	0	0	4	0	3
Italy	10	0	13	4	0	3	3	0	6	3	0	4
Japan	16	1	6	4	0	3	7	1	1	5	0	2
Kazakhstan	18	0	5	7	0	0	4	0	5	7	0	0
Korea, Rep. of	12	0	11	4	0	3	5	0	4	3	0	4
Kuwait	23	0	0	7	0	0	9	0	0	7	0	0
Lithuania	18	2	3	6	0	1	6	1	2	6	1	0
Morocco	12	0	11	6	0	1	4	0	5	2	0	5
Netherlands	–	–	–	–	–	–	–	–	–	–	–	–
New Zealand	15	7	1	4	2	1	6	3	0	5	2	0
Northern Ireland	22	0	1	7	0	0	8	0	1	7	0	0
Norway	7	0	16	4	0	3	0	0	9	3	0	4
Oman	12	1	10	6	0	1	4	0	5	2	1	4
Poland	11	0	12	5	0	2	3	0	6	3	0	4
Portugal	23	0	0	7	0	0	9	0	0	7	0	0
Qatar	20	2	3	7	0	0	9	0	0	4	2	3
Russian Federation	12	0	11	6	0	1	1	0	8	5	0	2
Saudi Arabia	23	0	0	7	0	0	9	0	0	7	0	0
Serbia	19	0	4	7	0	0	9	0	0	3	0	4
Singapore	7	0	16	3	0	4	4	0	5	0	0	7
Slovak Republic	17	0	6	4	0	3	8	0	1	5	0	2
Slovenia	17	0	6	5	0	2	8	0	1	4	0	3
Spain	16	0	7	6	0	1	4	0	5	6	0	1
Sweden	22	0	1	7	0	0	9	0	0	6	0	1
Turkey	16	0	7	4	0	3	7	0	2	5	0	2
United Arab Emirates	17	1	5	5	1	1	9	0	0	3	0	4
United States	21	0	2	7	0	0	8	0	1	6	0	1
International Avg.	16	1	6	6	0	1	6	0	3	5	0	2

SOURCE: IEA's Trends in International Mathematics and Science Study – TIMSS 2015

**Benchmarking Participants—Responses Pertain to Benchmarking Provinces/Emirates/States**

Buenos Aires, Argentina	8	0	15	1	0	6	4	0	5	3	0	4
Ontario, Canada	19	0	4	6	0	1	9	0	0	4	0	3
Quebec, Canada	9	1	13	3	0	4	4	1	4	2	0	5
Abu Dhabi, UAE	16	0	7	5	0	2	6	0	3	5	0	2
Dubai, UAE	23	0	0	7	0	0	9	0	0	7	0	0
Florida, US	21	0	2	7	0	0	8	0	1	6	0	1

A dash (–) indicates data not provided.