

Exhibit 2.10: Percentages of Students Reaching the International Benchmarks of Science Achievement Across Assessment Years

Country	Advanced International Benchmark (625)						High International Benchmark (550)					
	Percent of Students						Percent of Students					
	2015	2011	2007	2003	1999	1995	2015	2011	2007	2003	1999	1995
Singapore	42	40	32 ▲	33 ▲	29 ▲	29 ▲	74	69	61 ▲	66 ▲	60 ▲	64 ▲
Chinese Taipei	27	24	25	26	27		63	60 ▲	60	63	61	
Japan	24	18 ▲	17 ▲	15 ▲	16 ▲	18 ▲	63	57 ▲	55 ▲	53 ▲	52 ▲	54 ▲
Korea, Rep. of	19	20	17	17	19	17	54	57	54	57	50 ▲	50 ▲
Slovenia	17	13 ▲	11 ▲	6 ▲		8 ▲	52	48	45 ▲	33 ▲		32 ▲
Kazakhstan	15	4 ▲					42	23 ▲				
England	14	14	17	15	17	15	45	44	48	48	45	43
Russian Federation	14	14	11 ▲	6 ▲	15	11	49	48	41 ▲	32 ▲	41 ▲	38 ▲
Israel	12	11					37	39				
Hungary	12	9 ▲	13	14	19 ▼	12	42	39	46 ▼	46 ▼	53 ▼	44
United States	12	10	10	11	12	11	43	40	38 ▲	41	37 ▲	38 ▲
Hong Kong SAR	12	9	10	13	7 ▲	7 ▲	51	47	45	58 ▼	40 ▲	33 ▲
Ireland	10					11	43					38
Sweden	10	6 ▲	6 ▲	8 ▲		19 ▼	40	33 ▲	32 ▲	38		52 ▼
New Zealand	10	9	8	7	10	9	36	34		35	35	34
Lithuania	8	6	8	6	5 ▲	2 ▲	37	33 ▲	36	34	22 ▲	14 ▲
Turkey	8	8					29	26				
Australia	7	11	8	9		10 ▼	34	35	33	40 ▼		36
Malta	7		5 ▲				28		21 ▲			
United Arab Emirates	7	4 ▲					26	19 ▲				
Qatar	6	3 ▲					21	14 ▲				
Bahrain	6	3 ▲	2 ▲	0 ▲			22	17 ▲	17 ▲	6 ▲		
Italy	4	4	4	4	6		26	27	24	23	26	
Malaysia	3	1 ▲	3	4	5		21	11 ▲	18	28 ▼	24	
Iran, Islamic Rep. of	3	5	2	1 ▲	1	1	15	21 ▼	14	9 ▲	11	11
Norway (8)	3	3	2	2		6 ▼	22	22	20	21		32 ▼
Oman	3	2 ▲	1 ▲				17	11 ▲	8 ▲			
Thailand	2	1	3		2		12	10	17 ▼		18 ▼	
Chile	1	1		1 ▲	1		12	12		5 ▲	7 ▲	
Jordan	1	2	5 ▼	3 ▼	4 ▼		9	15 ▼	26 ▼	21 ▼	17 ▼	
South Africa (9)	1	1					5	4				
Georgia	1	0	0 ▲				10	6 ▲	5 ▲			
Saudi Arabia	1	1					6	8 ▼				
Lebanon	1	1	1	0			7	7	8	4 ▲		
Kuwait	1		0				6		6			
Botswana (9)	0	1					5	6				
Egypt	0		1	1 ▼			5		7 ▼	10 ▼		
Morocco	0	0					3	2 ▲				

Benchmarking Participants												
Dubai, UAE	14	7 ▲	6 ▲				43	28 ▲	27 ▲			
Florida, US	9	13					35	42				
Quebec, Canada	7	5 ▲	4 ▲	6	10	7	39	34	27 ▲	39	43	30 ▲
Ontario, Canada	7	6	7	7	7	5	37	35	37	41	34	26 ▲
Abu Dhabi, UAE	5	4					20	17				

▲ 2015 percent significantly higher
▼ 2015 percent significantly lower

An empty cell indicates a country did not participate in that year's assessment.

Trend results for Kuwait do not include private schools. Trend results for Lithuania do not include students taught in Polish or Russian. South Africa (9) tested one year later.

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

Exhibit 2.10: Percentages of Students Reaching the International Benchmarks of Science Achievement Across Assessment Years (Continued)

Country	Intermediate International Benchmark (475)						Low International Benchmark (400)					
	Percent of Students						Percent of Students					
	2015	2011	2007	2003	1999	1995	2015	2011	2007	2003	1999	1995
Singapore	90	87	80 ▲	85 ▲	84 ▲	91	97	96	93 ▲	95 ▲	95 ▲	99 ▼
Chinese Taipei	86	85	83 ▲	88	86		96	96	95 ▲	98 ▼	96	
Japan	89	86 ▲	85 ▲	86 ▲	84 ▲	85 ▲	98	97 ▲	96 ▲	98	97 ▲	97 ▲
Korea, Rep. of	85	86	85	88 ▼	81 ▲	81 ▲	97	97	97	98 ▼	96 ▲	95 ▲
Slovenia	84	82	81 ▲	75 ▲		69 ▲	97	96	97	96		93 ▲
Kazakhstan	74	58 ▲					93	86 ▲				
England	77	76	79	81	76	75	95	93	94	96	94	93 ▲
Russian Federation	81	81	76 ▲	70 ▲	73 ▲	71 ▲	96	96	95	93 ▲	92 ▲	92 ▲
Israel	64	69 ▼					84	88 ▼				
Hungary	74	75	80 ▼	82 ▼	83 ▼	80 ▼	92	92	96 ▼	97 ▼	96 ▼	95 ▼
United States	75	73	71 ▲	75	67 ▲	68 ▲	93	93	92	93	87 ▲	87 ▲
Hong Kong SAR	85	80 ▲	77 ▲	89 ▼	80 ▲	70 ▲	96	95	92 ▲	98	96	90 ▲
Ireland	77					70 ▲	94					90
Sweden	73	68 ▲	69	75		83 ▼	92	91	91	95 ▼		97 ▼
New Zealand	67	67		73 ▼	66	67	88	90		94 ▼	88	89
Lithuania	73	71	72	74	57 ▲	45 ▲	94	92	93	95	86 ▲	79 ▲
Turkey	59	54 ▲					83	79 ▲				
Australia	69	70	70	76 ▼		69	91	92	92	95 ▼		89
Malta	57		48 ▲				79		71 ▲			
United Arab Emirates	53	47 ▲					76	75				
Qatar	46	34 ▲					70	58 ▲				
Bahrain	49	44 ▲	49	33 ▲			73	70 ▲	78 ▼	70 ▲		
Italy	64	65	62	59 ▲	59 ▲		89	90	88	87	86 ▲	
Malaysia	52	34 ▲	50	71 ▼	59 ▼		77	62 ▲	80	95 ▼	87 ▼	
Iran, Islamic Rep. of	42	50 ▼	41	38	38	43	73	79 ▼	76	77	72	81 ▼
Norway (8)	60	62	58	63		72 ▼	88	90	87	91 ▼		94 ▼
Oman	45	34 ▲	32 ▲				72	59 ▲	61 ▲			
Thailand	41	39	48 ▼		54 ▼		75	74	80 ▼		87 ▼	
Chile	40	43		24 ▲	27 ▲		75	79 ▼		56 ▲	60 ▲	
Jordan	34	45 ▼	56 ▼	53 ▼	42 ▼		63	72 ▼	79 ▼	80 ▼	69 ▼	
South Africa (9)	14	11					32	25 ▲				
Georgia	38	28 ▲	27 ▲				70	62 ▲	61 ▲			
Saudi Arabia	22	33 ▼					49	68 ▼				
Lebanon	24	25	28	20			50	54	55	48		
Kuwait	23		28 ▼				49		60 ▼			
Botswana (9)	23	26					51	55 ▼				
Egypt	20		27 ▼	33 ▼			42		55 ▼	59 ▼		
Morocco	17	13 ▲					47	39 ▲				
Benchmarking Participants												
Dubai, UAE	72	57 ▲	58 ▲				89	79 ▲	82 ▲			
Florida, US	65	74					87	93 ▼				
Quebec, Canada	79	76	68 ▲	82	83	69 ▲	97	96	94 ▲	98	98	92
Ontario, Canada	77	76	77	81 ▼	72 ▲	61 ▲	95	96	96	97 ▼	95	88 ▲
Abu Dhabi, UAE	44	45					69	74 ▼				

▲ 2015 percent significantly higher
▼ 2015 percent significantly lower

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