



		entage of Stude al Approaches in with Different		tion to Accomm	
	All Classes Study Similar Content but at Different Levels of Difficulty	Students Are Grouped by Ability within Classes	Enrichment Science Is Offered	Remedial Science Is Offered	Different Classes Study Different Content
Countries					
United States	r 52 (4.6)	r 17 (3.4)	r 34 (4.0)	r 17 (3.4)	r 12 (2.7)
Belgium (Flemish)	57 (4.4)	11 (2.1)	19 (3.1)	37 (4.4)	58 (3.9)
Canada	x x	x x	x x	x x	x x
Chinese Taipei	49 (4.0)	23 (3.6)	83 (3.2)	78 (3.7)	16 (3.2)
Czech Republic	69 (4.6)	27 (4.4)	32 (4.3)	37 (5.2)	6 (2.9)
England	r 66 (4.6)	r 48 (4.5)	r 38 (5.0)	r 45 (4.9)	r 0 (0.0)
Hong Kong, SAR	47 (4.9)	10 (2.9)	49 (4.2)	21 (3.2)	r 2 (1.2)
Italy	0 (0.0)	0 (0.0)	38 (4.0)	45 (4.1)	0 (0.0)
Japan	23 (3.7)	7 (2.4)	28 (3.2)	58 (4.5)	4 (1.8)
Korea, Rep. of	24 (3.7)	39 (4.3)	21 (3.3)	17 (3.0)	16 (2.8)
Netherlands Russian Federation Singapore States	r 62 (6.2) 31 (4.0) 0 (0.0)	r 32 (6.8) 49 (4.0) 0 (0.0)	r 77 (6.3) 91 (2.6) 81 (3.3)	r 38 (6.4) 50 (3.6) 97 (0.8)	r 61 (6.6) 21 (3.5) 83 (3.5)
Connecticut	s 53 (9.2)	s 21 (8.1)	s 20 (8.1)	s 19 (8.5)	s 15 (7.6)
Idaho	r 57 (8.5)	r 11 (4.5)	r 3 (2.8)	r 10 (5.4)	r 7 (5.1)
Illinois	38 (7.9)	10 (3.5)	21 (6.4)	9 (4.2)	8 (3.8)
Indiana	59 (6.3)	10 (4.4)	25 (5.3)	7 (3.8)	13 (5.0)
Maryland	r 81 (5.4)	r 43 (8.3)	r 45 (6.4)	r 25 (6.4)	r 26 (6.6)
Massachusetts	s 54 (8.2)	s 20 (6.3)	s 19 (7.7)	s 22 (7.5)	s 3 (2.9)
Michigan	55 (9.3)	9 (3.7)	11 (5.3)	18 (6.6)	4 (2.6)
Missouri	44 (7.2)	2 (0.1)	22 (5.6)	14 (4.2)	2 (2.1)
North Carolina	r 75 (6.5)	r 16 (5.0)	r 25 (6.1)	r 11 (5.4)	r 9 (5.1)
Oregon	57 (9.2)	21 (8.0)	21 (8.0)	2 (0.1)	9 (4.0)
Pennsylvania South Carolina Texas Districts and Consortia	52 (7.9) 72 (6.9) r 73 (7.7)	23 (6.1) 28 (7.0) r 31 (8.7)	35 (6.0) 44 (9.1) r 72 (8.4)	16 (3.4) 13 (4.9) r 17 (6.2)	25 (4.7) 27 (5.8) r 22 (7.5)
Academy School Dist. #20, CO	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0) s 10 (6.1) r 22 (1.0) r 0 (0.0) s 63 (1.9)
Chicago Public Schools, IL	s 81 (8.8)	s 34 (11.0)	s 23 (11.2)	s 0 (0.0)	
Delaware Science Coalition, DE	r 39 (2.2)	r 19 (0.9)	r 38 (2.0)	r 27 (2.3)	
First in the World Consort., IL	r 56 (1.3)	r 8 (0.6)	r 15 (1.0)	r 0 (0.0)	
Fremont/Lincoln/WestSide PS, NE	r 100 (0.0)	r 30 (2.1)	r 79 (0.7)	r 7 (0.2)	
Guilford County, NC	r 73 (0.9)	r 28 (1.0)	r 18 (1.1)	r 0 (0.0)	r 0 (0.0)
Jersey City Public Schools, NJ	38 (1.6)	10 (0.6)	5 (2.1)	8 (2.0)	0 (0.0)
Miami-Dade County PS, FL	x x	s 40 (14.2)	s 100 (0.0)	s 17 (9.7)	s 25 (11.6)
Michigan Invitational Group, MI	37 (1.3)	14 (1.1)	15 (1.5)	9 (0.3)	0 (0.0)
Montgomery County, MD	s 81 (8.0)	s 56 (7.6)	s 61 (12.9)	s 17 (9.3)	s 16 (11.6)
Naperville Sch. Dist. #203, IL	0 (0.0)	0 (0.0)	24 (1.5)	0 (0.0)	0 (0.0)
Project SMART Consortium, OH	45 (1.4)	17 (1.0)	53 (1.5)	16 (1.0)	25 (1.4)
Rochester City Sch. Dist., NY	r 100 (0.0)	r 19 (1.3)	r 100 (0.0)	r 19 (1.3)	r 46 (1.6)
SW Math/Sci. Collaborative, PA	57 (8.9)	17 (7.5)	31 (9.6)	18 (6.0)	17 (7.6)
International Avg. (All Countries)	54 (0.7)	28 (0.6)	50 (0.6)	53 (0.7)	14 (0.5)

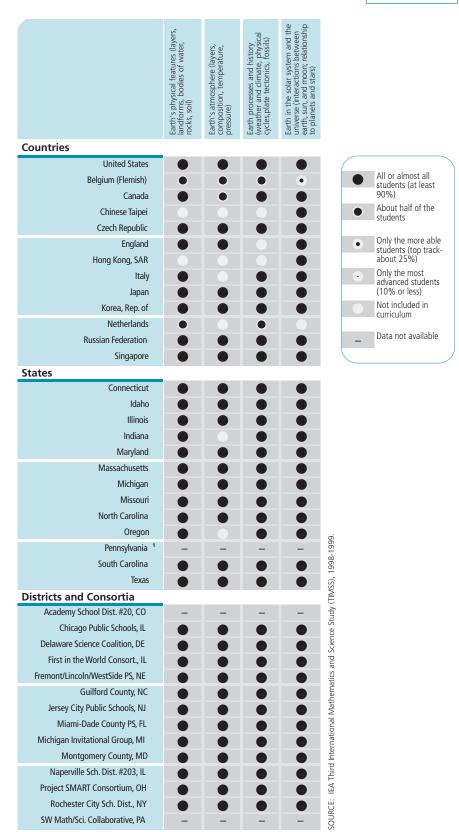
Background data provided by schools.



^() Standard errors appear in parentheses. Because results are rounded to the nearest whole number, some totals may appear inconsistent.

An "r" indicates school response data available for 70-84% of students. An "s" indicates school response data available for 50-69% of students. An "x" indicates school response data available for <50% of students.



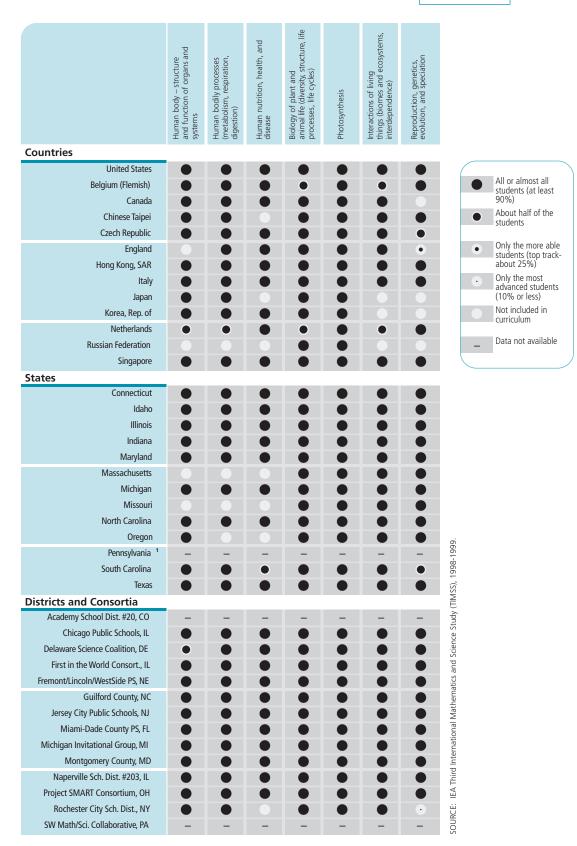


Background data provided by coordinators from participating jurisdictions.

Pennsylvania: Due to the variation across the state, a representative response cannot be provided for these questions.

TIMSS 1999 Benchmarking Boston College

8th Grade Science



Background data provided by coordinators from participating jurisdictions.

Pennsylvania: Due to the variation across the state, a representative response cannot be provided for these questions.



All or almost all students (at least 90%)

About half of the students

Only the more able students (top trackabout 25%)

Only the most advanced students (10% or less)

Not included in curriculum

Data not available

8th Grade Science

	cal nass, zing)		9.0		e (c)	and	ght	(S)	Forces and motion (types of forces, balanced/unbalanced forces, fluid behavior, speed, acceleration)		
	physi ht, n freez	tons	nd ineti		etwe	d, ar	il, in	agne	of fo ces, ation		
	and p weig lling,	(pro	es, al cal, k /; wc	ıre	iip be re∕vo	soun	racti	netisr 3, m.	ypes d for selera		
	ties atter (tter (r, boi	icles rons)	ourc iemic nergi	eratı	onsk	ena,	ref,	nagr ctivil	on (t ance 1, acc		
	oper f ma natte	: part	es, s is (ch jht ei	emp	relati re/pr	nome	ctio	and r	moti Inbal speed		
	al pr Jes or of m	omic ons,	y typ rsion ic, lig	and t	aws (pherion	(refle	icity is	sand ced/L ior, s	ncy	
	Physical properties and physical changes of matter (weight, mass, states of matter, boiling, freezing)	Subatomic particles (protons, electrons, neutrons)	Energy types, sources, and conversions (chemical, kinetic, electric, light energy, work and efficiency)	Heat and temperature	Gas laws (relationship between temperature/pressure/volume)	Wave phenomena, sound, vibration	Light (reflection, refraction, light and color)	Electricity and magnetism (circuits, conductivity, magnets)	orces alan ehav	Buoyancy	
Countries	E O N	N Ø	шофф		0,5	>>	а	ШЭ	шоо	ш	
United States											
Belgium (Flemish)											
Canada							•	•		•	
Chinese Taipei											
Czech Republic											
England											
Hong Kong, SAR											
Italy											
Japan											
Korea, Rep. of											
Netherlands			•			•	•				
Russian Federation											
Singapore											
States						_	_	_			
Connecticut				•	•						
Idaho		0			•	•	•				
Illinois											
Indiana											
Maryland										•	
Massachusetts											
Michigan											
Missouri					•	•					
North Carolina											
Oregon											99.
Pennsylvania ¹	-	-	_	-	_	_	_	_	-	-	8-19
South Carolina											199
Texas											(TIMSS), 1998-1999
Districts and Consortia											
Academy School Dist. #20, CO	-	-	_	-	_	_	_	_	-	-	Study
Chicago Public Schools, IL					•	•	•				nce
Delaware Science Coalition, DE										•	Scie
First in the World Consort., IL											and
Fremont/Lincoln/WestSide PS, NE										•	atic
Guilford County, NC											them
Jersey City Public Schools, NJ											Ma
Miami-Dade County PS, FL					•						tioné
Michigan Invitational Group, MI					•	•				•	erna
Montgomery County, MD											d Int
Naperville Sch. Dist. #203, IL					•						SOURCE: IEA Third International Mathematics and Science Study
Project SMART Consortium, OH											. IEA
Rochester City Sch. Dist., NY										•	IRCE
SW Math/Sci. Collaborative, PA	-	-	-	-	-	-	-	-	-	-	SOL

Background data provided by coordinators from participating jurisdictions.

1 Pennsylvania: Due to th

¹ Pennsylvania: Due to the variation across the state, a representative response cannot be provided for these questions.

TIMSS 1999 Benchmarking Boston College

All or almost all students (at least 90%) About half of the students

Only the more able students (top trackabout 25%)

Only the most advanced students (10% or less) Not included in curriculum Data not available

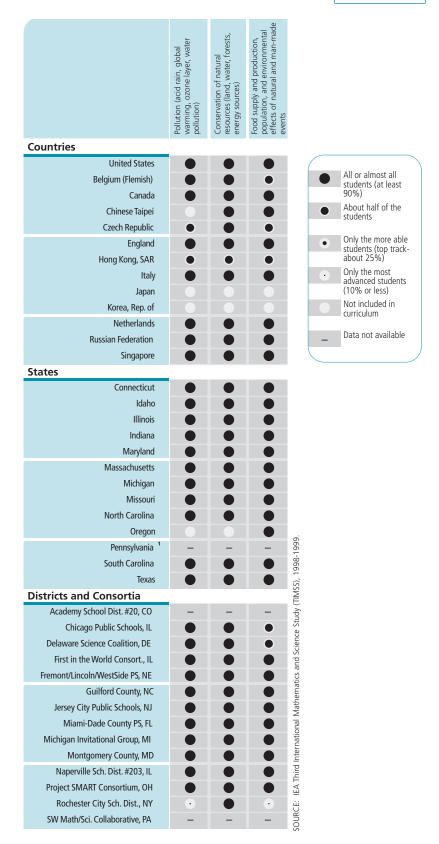
8th Grade Science

Countries	Classification of matter (elements, compounds, solutions, mixtures)	Structure of matter (atoms, ions, molecules, crystals)	Formation of solutions (solvents, soluties, soluties/insoluble substances)	Acids, bases, and salts	Chemical reactivity and transformations (definition of chemical change, oxidation, combustion)	Energy and chemical change (exothermic and endothermic reactions, reaction rates)	Chemical bonding and compound formation (ionic, covalent)	Chemical equations	Atomic structure	Atomic number and atomic mass	Periodic table	Valency	
United States											•		
Belgium (Flemish)													
Chinasa Tainai													
Chinese Taipei													
Czech Republic													
England								•		0		•	
Hong Kong, SAR													
Italy Japan													
Korea, Rep. of													
Netherlands	0	•											
Russian Federation													
Singapore													
States													
Connecticut			•			•		•				•	
Idaho				•			•	•	•		•	•	
Illinois						•							
Indiana													
Maryland			•	•	•	•							
Massachusetts													
Michigan													
Missouri			•	•	•		•	•	•	•	•	•	
North Carolina													
Oregon													0
Pennsylvania ¹	-	-	-	_	-	-	-	-	_	-	-	-	3-199
South Carolina		•			•	•		•					1998
Texas													ISS),
Districts and Consortia													. É
Academy School Dist. #20, CO	-	-	-	-	-	_	_	-	-	-	-	-	SOURCE: IEA Third International Mathematics and Science Study (TIMSS), 1998-1999.
Chicago Public Schools, IL						•	•	•				•	ance
Delaware Science Coalition, DE											0		J Scie
First in the World Consort., IL													s and
Fremont/Lincoln/WestSide PS, NE Guilford County, NC													matic
Jersey City Public Schools, NJ													athe
Miami-Dade County PS, FL													la M
Michigan Invitational Group, MI													atior
Montgomery County, MD	•												ntern
Naperville Sch. Dist. #203, IL													lird lı
Project SMART Consortium, OH													₹ T
Rochester City Sch. Dist., NY													ij
SW Math/Sci. Collaborative, PA	_	_		_	_	_	_		_	_		_	JURC
2.1													S

Background data provided by coordinators from participating jurisdictions.

¹ Pennsylvania: Due to the variation across the state, a representative response cannot be provided for

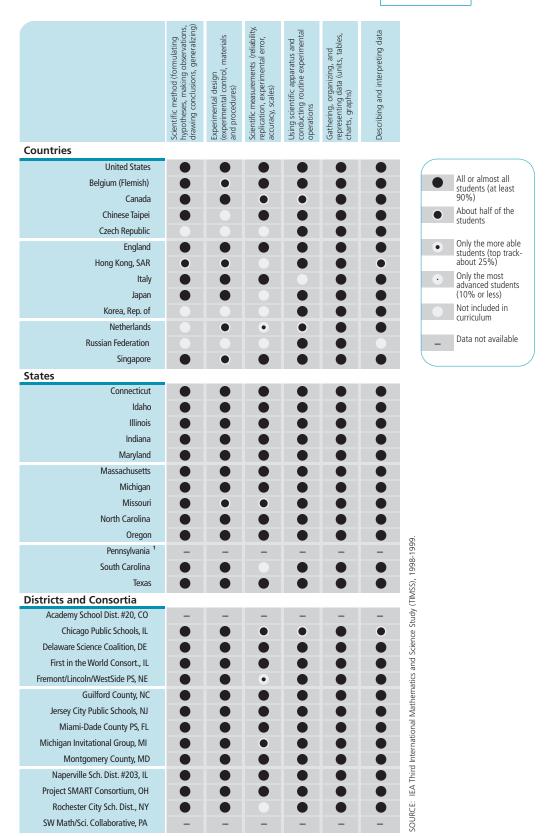




Background data provided by coordinators from participating jurisdictions.

Pennsylvania: Due to the variation across the state, a representative response cannot be provided for these questions.





Background data provided by coordinators from participating jurisdictions.

Pennsylvania: Due to the variation across the state, a representative response cannot be provided for these questions.

				Percentage	of Students		
		Taught Top This Ye	oics Before ar Only	Taught	Topics During This	Year¹	Not Vot Tought
		More Than 80% of Topics	More Than 50% Up to and Including 80% of Topics	More Than 50% of Topics Each Taught More Than 5 Periods	More Than 50% of Topics Each Taught at Least 1-5 Periods	50% or Less of Topics Taught	Not Yet Taught 50% or More of Topics
Countries							
United States	r	20 (3.1)	12 (2.6)	26 (3.4)	20 (2.1)	11 (2.3)	11 (2.4)
Belgium (Flemish)	r	4 (1.8)	12 (2.4)	2 (1.3)	10 (2.7)	12 (2.8)	60 (4.1)
Canada	S	17 (2.6)	12 (2.5)	21 (2.8)	22 (2.8)	14 (2.8)	16 (2.6)
Chinese Taipei							
Czech Republic		45 (6.3)	11 (3.4)	6 (1.9)	23 (4.2)	13 (3.7)	2 (1.2)
England	S	22 (4.2)	13 (3.6)	0 (0.0)	24 (4.2)	14 (4.0)	27 (3.5)
Hong Kong, SAR	S	1 (0.1)	0 (0.0)	2 (1.6)	7 (2.9)	1 (0.1)	88 (3.6)
Italy		5 (1.7)	8 (2.1)	18 (3.2)	28 (3.4)	22 (3.1)	19 (2.8)
Japan		0 (0.0)	3 (1.6)	3 (1.8)	6 (1.9)	28 (3.7)	61 (4.0)
Korea, Rep. of		4 (1.6)	13 (3.0)	12 (2.8)	22 (3.4)	41 (4.0)	8 (2.1)
Netherlands		0 (0.0)	1 (0.8)	10 (3.5)	59 (6.0)	14 (3.8)	17 (4.7)
Russian Federation							
Singapore		хх	хх	хх	хх	хх	хх
States		20 (7.4)	5 (2.2)	42 (5.2)	47 (5.0)	0 (1.0)	10 (5.5)
Connecticut	S	38 (7.4)	6 (2.2)	13 (5.2)	17 (5.9)	8 (4.0)	18 (6.6)
Idaho	S	18 (7.5)	0 (0.1)	20 (4.1)	9 (3.5)	3 (2.0)	50 (7.3)
Illinois	r	26 (5.4)	16 (5.5)	19 (5.6)	18 (5.2)	2 (1.3)	19 (6.8)
Indiana Maryland	r	31 (7.7)	18 (4.2)	19 (4.5)	14 (4.1)	8 (3.5)	9 (3.6)
•	S	26 (7.2)	8 (3.6)	17 (4.1)	17 (4.5)	15 (5.4)	17 (4.3)
Massachusetts Michigan	r	18 (5.1) 30 (5.0)	12 (5.0) 16 (4.6)	25 (5.6) 12 (3.5)	18 (4.8) 14 (3.2)	10 (4.0) 18 (4.5)	18 (4.8) 11 (3.9)
Missouri	,						
North Carolina	'	11 (4.9) 6 (3.4)	7 (3.2) 15 (5.4)	22 (4.5) 21 (4.8)	29 (5.7) 22 (5.1)	24 (6.1) 29 (3.9)	7 (2.9) 6 (0.9)
Oregon		15 (5.2)	5 (2.5)	37 (8.4)	26 (7.0)	6 (3.2)	11 (4.3)
Pennsylvania	r	29 (6.4)	4 (1.8)	38 (6.2)	7 (2.2)	2 (1.1)	19 (3.7)
South Carolina	'	7 (4.0)	4 (2.9)	43 (6.1)	41 (7.6)	2 (1.1)	3 (1.3)
Texas	r	1 (0.9)	1 (1.2)	49 (5.7)	37 (5.2)	6 (2.7)	7 (3.2)
Districts and Consortia		. (0.5)	. ()	13 (317)	37 (3.2)	0 (2.7)	, (312)
Academy School Dist. #20, CO		64 (0.4)	0 (0.0)	0 (0.0)	26 (0.4)	0 (0.0)	10 (0.2)
Chicago Public Schools, IL	r	33 (10.9)	7 (5.1)	20 (3.8)	19 (10.1)	6 (4.5)	15 (5.8)
Delaware Science Coalition, DE	S	0 (0.0)	0 (0.0)	65 (5.9)	13 (3.7)	8 (4.5)	13 (4.8)
First in the World Consort., IL		72 (6.7)	5 (1.7)	0 (0.0)	7 (1.1)	3 (0.4)	14 (7.8)
Fremont/Lincoln/WestSide PS, NE	r	13 (8.0)	51 (10.3)	1 (0.4)	25 (1.5)	6 (6.3)	3 (2.4)
Guilford County, NC		0 (0.0)	6 (0.9)	25 (5.1)	22 (4.0)	40 (5.5)	7 (3.1)
Jersey City Public Schools, NJ	r	86 (4.1)	0 (0.0)	0 (0.0)	11 (4.2)	4 (0.4)	0 (0.0)
Miami-Dade County PS, FL	S	21 (6.8)	16 (6.8)	10 (4.6)	34 (6.8)	15 (5.2)	4 (2.9)
Michigan Invitational Group, MI	r	22 (2.2)	2 (1.5)	45 (5.6)	16 (5.9)	9 (3.2)	6 (1.8)
Montgomery County, MD		хх	хх	хх	хх	хх	хх
Naperville Sch. Dist. #203, IL		2 (0.6)	40 (4.8)	0 (0.0)	28 (2.8)	29 (4.0)	0 (0.0)
Project SMART Consortium, OH	r	15 (1.7)	16 (2.2)	23 (3.8)	27 (4.0)	6 (3.1)	12 (3.5)
Rochester City Sch. Dist., NY	S	10 (0.8)	0 (0.0)	0 (0.0)	0 (0.0)	3 (2.8)	87 (2.7)
SW Math/Sci. Collaborative, PA		34 (5.5)	8 (2.2)	14 (5.9)	12 (3.9)	5 (2.9)	26 (6.1)
International Avg. (All Countries)		13 (0.5)	10 (0.5)	10 (0.5)	23 (0.7)	12 (0.5)	31 (0.6)

Background data provided by teachers.

^{*} Categories of topic coverage for earth science are based on combined responses to questions about the individual science subtopics in the content area described in Exhibit 5.20.

¹ For each topic in Exhibit 5.20, teachers were asked if the topic was taught before this year, taught 1-5 periods this year, taught more than 5 periods this year, or not yet taught. Topics taught during this year are included in this category regardless if taught before this year.

⁽⁾ Standard errors appear in parentheses. Because results are rounded to the nearest whole number, some totals may appear inconsistent.

A dash (-) indicates data are not available.

An "r" indicates teacher response data available for 70-84% of students. An "s" indicates teacher response data available for 50-69% of students. An "x" indicates teacher response data available for <50% of students.



TIMSS 1999 Benchmarking Boston College

8th Grade Science

	Percentage of Students							
		opics Before Year Only	Taught	Topics During This	Year ¹	Not Yet Taught		
	More Than 80% of Topics	More Than 50% Up to and Including 80% of Topics	More Than 50% of Topics Each Taught More Than 5 Periods	More Than 50% of Topics Each Taught at Least 1-5 Periods	50% or Less of Topics Taught	50% or More of Topics		
ountries								
United States	45 (3.7)	10 (2.1)	9 (2.0)	17 (2.6)	9 (2.2)	10 (2.0)		
Belgium (Flemish)	0 (0.0)	7 (2.0)	27 (4.3)	39 (4.4)	25 (4.2)	2 (1.3)		
Canada s	1 (0.5)	6 (1.8)	10 (2.1)	26 (4.1)	10 (3.4)	47 (3.3)		
Chinese Taipei								
Czech Republic	8 (2.4)	2 (0.8)	25 (4.6)	26 (2.8)	33 (5.3)	6 (1.8)		
England s	9 (3.1)	8 (2.7)	16 (3.5)	42 (4.8)	19 (3.9)	6 (1.7)		
Hong Kong, SAR	3 (1.3)	6 (2.4)	4 (1.7)	17 (3.8)	25 (4.3)	45 (4.5)		
Italy	34 (4.0)	30 (3.5)	11 (2.3)	11 (2.3)	13 (2.2)	1 (0.3)		
Japan	1 (1.2)	1 (0.9)	17 (3.3)	37 (3.9)	17 (3.3)	27 (3.5)		
Korea, Rep. of	4 (1.7)	1 (1.0)	13 (3.1)	39 (3.8)	21 (3.6)	20 (3.3)		
Netherlands	0 (0.0)	1 (0.7)	2 (1.2)	96 (1.7)	1 (0.9)	0 (0.0)		
Russian Federation								
Singapore	0 (0.0)	2 (1.5)	34 (4.3)	45 (4.6)	14 (3.3)	4 (2.0)		
tates								
Connecticut		16 (7.2)	10 (3.9)	4 (2.4)	9 (4.0)	5 (2.5)		
Idaho s	57 (8.2)	7 (3.7)	3 (1.5)	7 (3.7)	3 (2.2)	24 (7.5)		
Illinois	44 (7.8)	9 (3.9)	9 (3.7)	16 (4.3)	8 (3.5)	14 (3.9)		
Indiana	` ′	13 (8.0)	21 (6.2)	12 (4.9)	11 (4.8)	9 (3.6)		
Maryland s	58 (7.1)	11 (4.7)	2 (2.3)	12 (4.3)	15 (5.0)	1 (1.0)		
	59 (6.6)	16 (4.7)	6 (3.0)	6 (3.2)	6 (3.0)	8 (3.3)		
Michigan I	28 (5.6)	14 (3.6)	10 (3.9)	16 (3.8)	20 (5.2)	12 (4.0)		
Missouri ı	, ,	8 (3.6)	6 (3.4)	28 (7.6)	13 (5.0)	14 (4.8)		
	51 (6.0)	21 (5.0)	1 (1.3)	5 (2.9)	10 (2.6)	12 (3.7)		
	55 (7.1)	8 (3.5)	12 (4.5)	9 (3.7)	6 (1.6)	10 (4.0)		
	55 (5.8)	3 (1.2)	7 (2.7)	8 (2.5)	7 (3.0)	21 (3.2)		
	48 (7.0)	12 (5.4)	8 (3.3)	17 (5.3)	9 (3.6)	6 (3.1)		
Texas	43 (6.5)	12 (4.2)	5 (2.9)	18 (3.8)	14 (5.5)	8 (3.6)		
istricts and Consortia	CA (0.4)	F (0.2)	24 (0.4)	40 (0.4)	0 (0 0)	0 (0.0)		
Academy School Dist. #20, CO	64 (0.4)	5 (0.2)	21 (0.4)	10 (0.4)	0 (0.0)	0 (0.0)		
Chicago Public Schools, IL	` '	0 (0.0)	7 (4.6)	48 (12.5)	26 (11.1)	14 (8.3)		
Delaware Science Coalition, DE S First in the World Consort., IL	71 (7.0) 42 (4.0)	6 (2.4) 3 (0.4)	1 (0.1) 22 (4.3)	5 (2.6) 24 (9.3)	2 (0.9) 5 (5.0)	15 (6.1) 5 (1.5)		
E	F (4.4)	21 (4.3)	28 (5.1)	24 (9.3) 29 (11.4)	5 (5.0) 14 (10.5)	3 (1.1)		
Guilford County, NC		34 (5.4)	0 (0.0)	2 (0.4)	6 (1.0)	6 (2.8)		
Jersey City Public Schools, NJ	` '	4 (0.6)	0 (0.0)	7 (0.7)	8 (0.8)	9 (4.2)		
Miami-Dade County PS, FL S Michigan Invitational Group, MI		15 (5.9) 11 (3.7)	10 (4.6) 2 (1.2)	18 (6.1) 17 (1.8)	13 (4.1) 5 (3.1)	5 (2.4) 24 (2.8)		
Montgomery County, MD	X X	x x	2 (1.2) X X	x x	У (З.1) Х Х	X X		
Naperville Sch. Dist. #203, IL		12 (0.7)		42 (5.2)	21 (4.3)			
	12 (0.5) 46 (3.6)	12 (0.7)	13 (3.1)			0 (0.0)		
	46 (3.6) 64 (5.9)	0 (0.0)	11 (1.4) 10 (4.9)	15 (4.2) 12 (4.7)	8 (2.6) 4 (1.8)	8 (2.3) 10 (3.4)		
			0 (0.0)		9 (4.9)	26 (5.8)		
Swi Maui/Sci. Collaborative, PA	43 (9.4)	9 (4.2)	0 (0.0)	13 (4.5)	9 (4.9)	20 (5.8)		
International Avg.	7 (0.4)			29 (0.7)	19 (0.6)	21 (0.5)		

Background data provided by teachers.

Categories of topic coverage for biology are based on combined responses to questions about the individual science subtopics in the content area described in Exhibit 5.21.

¹ For each topic in Exhibit 5.21, teachers were asked if the topic was taught before this year, taught 1-5 periods this year, taught more than 5 periods this year, or not yet taught. Topics taught during this year are included in this category regardless if taught before this year.

⁽⁾ Standard errors appear in parentheses. Because results are rounded to the nearest whole number, some totals may appear inconsistent.

A dash (-) indicates data are not available.

An "r" indicates teacher response data available for 70-84% of students. An "s" indicates teacher response data available for 50-69% of students. An "x" indicates teacher response data available for <50% of students.

				Percentage	of Students		
		Taught Top This Ye		Taugh	t Topics During Thi	s Year¹	Not Yet Taught
		More Than 80% of Topics	More Than 50% Up to and Including 80% of Topics	More Than 50% of Topics Each Taught More Than 5 Periods	More Than 50% of Topics Each Taught at Least 1-5 Periods	50% or Less of Topics Taught	50% or More of Topics
Countries							
United States	r	5 (1.5)	7 (1.9)	21 (3.6)	37 (2.9)	12 (2.4)	18 (3.1)
Belgium (Flemish)	S	0 (0.0)	0 (0.0)	1 (0.9)	13 (3.4)	2 (1.3)	84 (3.3)
Canada	S	0 (0.2)	6 (2.0)	7 (1.7)	25 (3.0)	16 (2.8)	45 (3.2)
Chinese Taipei		5 (1.6)	5 (1.9)	12 (2.7)	34 (4.2)	26 (3.8)	19 (2.9)
Czech Republic		0 (0.0)	5 (2.3)	5 (2.1)	26 (4.9)	60 (5.0)	4 (2.1)
England	S	0 (0.2)	16 (4.2)	4 (1.8)	52 (5.3)	27 (4.4)	1 (0.5)
Hong Kong, SAR	r	1 (0.9)	2 (1.3)	12 (3.3)	21 (4.0)	37 (4.9)	28 (4.3)
Italy		4 (1.6)	14 (2.7)	7 (2.1)	20 (3.0)	32 (3.9)	24 (3.3)
Japan		0 (0.0)	12 (3.1)	1 (0.9)	7 (2.0)	73 (3.6)	6 (2.3)
Korea, Rep. of		4 (1.6)	13 (2.6)	2 (1.2)	24 (3.7)	30 (3.9)	28 (3.8)
Netherlands		0 (0.0)	1 (0.7)	0 (0.0)	98 (0.9)	1 (0.6)	0 (0.0)
Russian Federation							
Singapore		0 (0.1)	2 (1.1)	20 (3.5)	59 (4.3)	17 (3.6)	2 (1.4)
States							
Connecticut	S	4 (3.1)	7 (3.3)	21 (6.1)	24 (7.9)	7 (4.6)	36 (8.5)
Idaho	S	2 (1.3)	1 (0.8)	25 (8.5)	29 (5.4)	3 (0.3)	41 (7.3)
Illinois	r	7 (3.7)	10 (5.1)	15 (4.6)	19 (5.1)	23 (7.1)	26 (7.7)
Indiana	r	11 (5.8)	11 (4.8)	19 (5.4)	21 (5.9)	18 (6.4)	20 (8.3)
Maryland	S	3 (1.7)	15 (4.5)	19 (6.3)	31 (7.4)	18 (4.7)	14 (4.8)
Massachusetts	r	1 (1.0)	8 (4.6)	24 (6.7)	37 (7.4)	15 (4.6)	16 (4.5)
Michigan	r	4 (2.5)	5 (2.5)	23 (4.6)	51 (6.1)	10 (3.8)	8 (3.9)
Missouri	r	11 (3.9)	7 (3.5)	14 (2.7)	31 (5.1)	23 (6.0)	14 (4.4)
North Carolina	r	1 (0.6)	12 (4.6)	18 (5.7)	40 (6.2)	13 (4.6)	16 (5.9)
Oregon	r	9 (4.9)	12 (4.5)	12 (5.0)	38 (7.3)	13 (4.7)	16 (4.8)
Pennsylvania	S	1 (0.8)	12 (8.2)	25 (5.6)	25 (4.7)	4 (1.9)	33 (7.5)
South Carolina	r	2 (0.2)	7 (2.6)	27 (6.5)	46 (6.3)	7 (3.5)	10 (3.2)
Texas	S	9 (6.1)	16 (3.5)	10 (3.8)	42 (6.7)	7 (2.7)	15 (5.1)
Districts and Consortia							
Academy School Dist. #20, CO		0 (0.0)	0 (0.0)	44 (0.6)	36 (0.6)	0 (0.0)	20 (0.4)
Chicago Public Schools, IL	r	12 (6.4)	7 (5.1)	20 (7.3)	34 (11.5)	15 (7.9)	13 (7.4)
Delaware Science Coalition, DE		X X	X X	X X	X X	X X	X X
First in the World Consort., IL		12 (1.2)	16 (6.4)	16 (2.5)	19 (2.9)	26 (9.1)	11 (1.5)
Tremondemedia Westside 15, 142	S	0 (0.0)	30 (3.5)	10 (4.9)	12 (3.2)	33 (7.5)	16 (4.5)
Guilford County, NC	r	1 (0.1)	41 (5.5)	8 (3.4)	31 (5.6)	14 (3.6)	5 (2.4)
Jersey City Public Schools, NJ	r	0 (0.0)	5 (4.3)	19 (1.8)	62 (4.2)	9 (0.8)	5 (0.5)
Miami-Dade County PS, FL	S	5 (3.9)	0 (0.0)	47 (5.9)	31 (5.5)	2 (1.8)	15 (5.1)
Michigan Invitational Group, MI	r	5 (0.3)	6 (0.7)	26 (6.0)	29 (3.4)	18 (6.7)	16 (3.7)
Montgomery County, MD		X X	X X	X X	X X	X X	X X
Naperville Sch. Dist. #203, IL		0 (0.0)	0 (0.0)	26 (2.8)	41 (5.5)	21 (4.9)	11 (0.5)
Project SMART Consortium, OH	r	3 (0.1)	12 (1.5)	25 (3.7)	37 (3.6)	9 (3.0)	14 (1.3)
Rochester City Sch. Dist., NY	r	0 (0.0)	6 (4.1)	21 (4.9)	37 (2.7)	0 (0.0)	36 (6.4)
SW Math/Sci. Collaborative, PA	r	4 (3.1)	4 (3.1)	25 (7.1)	35 (7.5)	7 (2.5)	24 (7.9)
International Avg. (All Countries)	I	2 (0.2)	7 (0.4)	10 (0.5)	34 (0.7)	21 (0.6)	27 (0.5)

Background data provided by teachers.

States in italics did not fully satisfy guidelines for sample participation rates (see Appendix A for details).

SOURCE: IEA Third International Mathematics and Science Study (TIMSS), 1998-1999.

Categories of topic coverage for physics are based on combined responses to questions about the individual science subtopics in the content area described in Exhibit 5.22.

¹ For each topic in Exhibit 5.22, teachers were asked if the topic was taught before this year, taught 1-5 periods this year, taught more than 5 periods this year, or not yet taught. Topics taught during this year are included in this category regardless if taught before this year.

Standard errors appear in parentheses. Because results are rounded to the nearest whole number, some totals may appear inconsistent.

A dash (-) indicates data are not available.

An "r" indicates teacher response data available for 70-84% of students. An "s" indicates teacher response data available for 50-69% of students. An "x" indicates teacher response data available for <50% of students.





		Percentage of Students							
			oics Before ar Only	Taught	Taught Topics During This Year ¹				
		More Than 80% of Topics	More Than 50% Up to and Including 80% of Topics	More Than 50% of Topics Each Taught More Than 5 Periods	More Than 50% of Topics Each Taught at Least 1-5 Periods	50% or Less of Topics Taught	Not Yet Taught 50% or More of Topics		
Countries									
United States	r	8 (1.9)	2 (0.9)	31 (3.5)	32 (3.4)	4 (1.0)	23 (3.3)		
Belgium (Flemish)	S	0 (0.0)	0 (0.0)	0 (0.0)	3 (1.9)	0 (0.0)	97 (1.9)		
Canada	S	6 (2.0)	2 (0.9)	15 (2.7)	25 (3.2)	2 (0.9)	51 (3.9)		
Chinese Taipei		7 (1.9)	1 (0.7)	41 (4.5)	46 (3.9)	5 (1.9)	1 (0.7)		
Czech Republic		1 (0.3)	5 (2.1)	28 (4.9)	45 (5.6)	14 (3.1)	8 (3.0)		
England	S	4 (2.2)	7 (2.8)	14 (3.5)	59 (5.1)	5 (2.0)	11 (3.3)		
Hong Kong, SAR	r	8 (2.6)	19 (3.8)	6 (1.9)	15 (3.5)	18 (3.8)	35 (4.8)		
Italy		21 (3.1)	15 (2.6)	12 (2.5)	20 (3.2)	9 (2.1)	23 (3.6)		
Japan		3 (1.7)	1 (0.7)	32 (4.3)	35 (3.8)	12 (2.7)	18 (3.3)		
Korea, Rep. of		2 (1.3)	3 (1.3)	27 (3.4)	45 (3.8)	13 (2.8)	10 (2.3)		
Netherlands	r	0 (0.0)	0 (0.0)	0 (0.0)	98 (1.0)	0 (0.0)	1 (0.9)		
Russian Federation									
Singapore	r	1 (0.6)	11 (2.9)	20 (3.8)	48 (4.9)	9 (2.3)	13 (3.3)		
States		- />	- ()	()	()		(-)		
Connecticut	S	5 (4.3)	2 (0.2)	31 (6.5)	31 (7.5)	1 (1.3)	29 (7.4)		
Idaho	S	2 (1.4)	0 (0.0)	34 (7.7)	33 (8.0)	3 (2.9)	27 (6.9)		
Illinois	r	11 (3.4)	0 (0.3)	43 (7.5)	25 (6.1)	0 (0.0)	20 (4.7)		
Indiana Maryland	r	4 (2.4)	1 (1.1)	41 (8.1)	31 (5.9)	6 (3.3)	17 (5.3)		
•	S	6 (3.1)	1 (1.1)	39 (6.5)	37 (5.7)	1 (1.2)	16 (5.0)		
Massachusetts Michigan	r r	6 (3.1) 15 (5.0)	3 (2.2) 0 (0.2)	39 (7.3) 28 (6.3)	21 (4.6) 33 (5.5)	5 (2.4) 9 (3.9)	25 (5.5) 14 (5.3)		
Missouri	r	6 (3.4)	2 (0.1)	23 (5.3)	24 (6.4)	12 (4.8)	32 (6.5)		
North Carolina	'	0 (0.3)	0 (0.0)	43 (5.1)	38 (5.0)	1 (0.9)	17 (4.9)		
Oregon	r	10 (3.9)	7 (3.5)	27 (6.3)	40 (6.2)	4 (2.8)	12 (3.6)		
Pennsylvania	r	2 (1.6)	0 (0.0)	48 (6.6)	18 (4.3)	6 (1.1)	26 (5.6)		
South Carolina	r	0 (0.0)	0 (0.0)	40 (6.3)	44 (6.9)	2 (0.8)	14 (3.5)		
Texas	r	5 (5.0)	1 (1.2)	40 (6.1)	34 (5.8)	0 (0.2)	20 (5.1)		
Districts and Consortia		3 (3.0)	. ()	10 (011)	3. (5.6)	0 (0.2)	20 (51.)		
Academy School Dist. #20, CO		0 (0.0)	0 (0.0)	60 (0.4)	24 (0.5)	2 (0.4)	14 (0.2)		
Chicago Public Schools, IL	r	13 (7.0)	1 (1.5)	37 (11.7)	23 (6.2)	0 (0.0)	26 (9.7)		
Delaware Science Coalition, DE		x x	хх	x x	x x	хх	x x		
First in the World Consort., IL		2 (0.2)	0 (0.0)	63 (6.2)	20 (7.4)	8 (1.9)	7 (0.7)		
Fremont/Lincoln/WestSide PS, NE	S	0 (0.0)	12 (1.9)	4 (3.9)	30 (5.7)	15 (2.1)	39 (7.8)		
Guilford County, NC		0 (0.0)	0 (0.0)	42 (5.7)	40 (6.0)	6 (0.9)	12 (4.2)		
Jersey City Public Schools, NJ	r	0 (0.0)	0 (0.0)	42 (5.2)	36 (5.0)	0 (0.0)	21 (2.1)		
Miami-Dade County PS, FL	S	11 (5.7)	12 (7.4)	30 (5.7)	39 (5.6)	1 (0.2)	6 (2.1)		
Michigan Invitational Group, MI	r	11 (5.8)	2 (1.5)	25 (3.7)	45 (6.3)	1 (0.1)	15 (2.4)		
Montgomery County, MD		хх	хх	хх	хх	хх	хх		
Naperville Sch. Dist. #203, IL		0 (0.0)	0 (0.0)	48 (5.6)	41 (5.7)	11 (0.4)	0 (0.0)		
Project SMART Consortium, OH	r	3 (0.1)	5 (0.4)	34 (3.7)	32 (4.7)	4 (1.0)	22 (3.3)		
Rochester City Sch. Dist., NY	r	0 (0.0)	0 (0.0)	24 (4.1)	48 (4.7)	0 (0.0)	28 (6.1)		
SW Math/Sci. Collaborative, PA	r	1 (0.5)	0 (0.0)	43 (5.8)	28 (6.5)	0 (0.0)	29 (4.9)		
International Avg.					35 (0.7)				

Background data provided by teachers.





^{*} Categories of topic coverage for chemistry are based on combined responses to questions about the individual science subtopics in the content area described in Exhibit 5.23.

¹ For each topic in Exhibit 5.23, teachers were asked if the topic was taught before this year, taught 1-5 periods this year, taught more than 5 periods this year, or not yet taught. Topics taught during this year are included in this category regardless if taught before this year.

⁽⁾ Standard errors appear in parentheses. Because results are rounded to the nearest whole number, some totals may appear inconsistent.

A dash (-) indicates data are not available.

An "r" indicates teacher response data available for 70-84% of students. An "s" indicates teacher response data available for 50-69% of students. An "x" indicates teacher response data available for <50% of students.



	Percentage of Students								
		pics Before ear Only	Taught	Topics During This	Year ¹	Not Yet Taught			
	More Than 80% of Topics	More Than 50% Up to and Including 80% of Topics	More Than 50% of Topics Each Taught More Than 5 Periods	More Than 50% of Topics Each Taught at Least 1-5 Periods	50% or Less of Topics Taught	50% or More of Topics			
Countries									
United States in Belgium (Flemish) in Canada is Chinese Taipei in	21 (2.8) 4 (1.9) 9 (2.1) 16 (3.8)	8 (2.1) 6 (3.3) 10 (2.0) 5 (2.2)	15 (2.3) 6 (2.0) 19 (3.6) 4 (1.8)	34 (3.3) 64 (4.9) 51 (4.5) 22 (3.4)	3 (0.7) 3 (1.5) 3 (1.2) 3 (1.5)	19 (2.5) 17 (3.6) 8 (1.7) 51 (4.4)			
Czech Republic England s Hong Kong, SAR r	10 (4.3) 15 (4.1) 4 (1.9)	9 (3.0) 8 (2.9) 10 (3.1)	9 (2.7) 5 (2.0) 4 (2.0)	64 (5.4) 43 (5.5) 29 (5.0)	0 (0.0) 1 (0.8) 6 (2.4)	9 (2.7) 27 (4.9) 46 (5.3)			
Italy Japan Korea, Rep. of	17 (3.2) 1 (0.0) 13 (2.7)	13 (2.7) 1 (0.0) 7 (2.2)	17 (3.0) 1 (0.0) 4 (1.7)	29 (3.8) 6 (2.0) 31 (3.7)	3 (1.4) 0 (0.0) 3 (1.4)	20 (2.8) 92 (2.5) 42 (4.5)			
Netherlands Russian Federation Singapore r States	1 (0.5) 13 (2.6)	2 (1.1) 12 (3.1)	5 (1.9) 10 (2.9)	92 (2.5) 41 (4.5)	0 (0.0) 12 (2.9)	1 (1.0) 13 (3.4)			
Connecticut s	i i	12 (5.3) 5 (2.7)	4 (2.1) 5 (1.9)	27 (6.4) 36 (5.2)	0 (0.0) 0 (0.0)	17 (6.2) 43 (7.7)			
Illinois r Indiana s Maryland s	25 (4.8)	4 (1.8) 6 (2.7) 15 (5.1)	31 (7.4) 18 (6.3) 13 (4.1)	24 (6.3) 31 (5.6) 20 (5.5)	4 (2.5) 3 (2.7) 4 (3.0)	16 (4.1) 17 (5.1) 16 (5.0)			
Massachusetts		13 (4.3) 7 (2.9)	6 (2.9) 22 (6.4)	29 (6.4) 29 (6.0)	3 (2.0) 6 (3.8)	10 (3.4) 11 (4.3)			
	27 (6.8) 19 (5.6) 27 (7.0)	10 (2.5) 5 (2.0) 9 (5.2)	14 (4.9) 19 (5.9) 20 (5.7)	39 (5.7) 31 (5.9) 25 (5.4)	0 (0.4) 3 (1.9) 2 (1.5)	10 (3.5) 23 (5.6) 17 (5.5)			
Pennsylvania r South Carolina r Texas r	11 (3.7)	2 (1.7) 12 (4.2) 7 (2.9)	14 (3.1) 13 (4.4) 18 (4.9)	34 (7.8) 53 (7.1) 45 (7.8)	1 (0.5) 4 (2.3) 2 (1.8)	28 (6.5) 6 (2.3) 13 (3.3)			
Districts and Consortia	. (,	()	,	. (.,		(, , ,			
Academy School Dist. #20, CO Chicago Public Schools, IL Delaware Science Coalition, DE First in the World Consort., IL Fremont/Lincoln/WestSide PS, NE	23 (10.0) 11 (5.0) 44 (6.2)	0 (0.0) 6 (4.6) 0 (0.0) 13 (6.5) 11 (6.8)	16 (0.3) 4 (3.5) 14 (4.9) 7 (1.0) 17 (11.2)	28 (0.6) 24 (10.3) 33 (5.6) 36 (8.0) 32 (6.5)	0 (0.0) 0 (0.0) 11 (4.6) 0 (0.0) 0 (0.1)	0 (0.0) 43 (13.0) 31 (4.9) 0 (0.0) 25 (6.5)			
Guilford County, NC Jersey City Public Schools, NJ Miami-Dade County PS, FL Michigan Invitational Group, MI Montgomery County, MD	7 (4.0) 11 (5.7) 18 (4.9)	10 (2.2) 10 (4.3) 6 (3.5) 18 (3.7) x x	31 (5.9) 9 (0.9) 11 (3.9) 13 (7.7) x x	28 (5.6) 67 (5.6) 46 (8.6) 15 (6.5) x x	0 (0.0) 0 (0.0) 1 (0.7) 0 (0.0) x x	24 (3.8) 2 (0.2) 18 (6.5) 20 (4.0) x x			
Naperville Sch. Dist. #203, IL Project SMART Consortium, OH Rochester City Sch. Dist., NY SW Math/Sci. Collaborative, PA	2 (0.6) 26 (4.4)	36 (2.0) 9 (0.8) 7 (4.5) 4 (2.4)	0 (0.0) 11 (3.0) 0 (0.0) 11 (5.4)	40 (5.0) 45 (4.6) 14 (3.6) 34 (8.1)	21 (4.8) 1 (1.1) 0 (0.0) 3 (2.5)	0 (0.0) 8 (1.7) 67 (6.4) 15 (7.1)			
International Avg. (All Countries)	9 (0.4)	7 (0.4)	13 (0.5)	43 (0.7)	3 (0.2)	26 (0.6)			

Background data provided by teachers.

States in *italics* did not fully satisfy guidelines for sample participation rates (see Appendix A for details).

A dash (-) indicates data are not available.

^{*} Categories of topic coverage for environmental and resource issues are based on combined responses to questions about the individual science subtopics in the content area described in Exhibit 5.24.

¹ For each topic in Exhibit 5.24, teachers were asked if the topic was taught before this year, taught 1-5 periods this year, taught more than 5 periods this year, or not yet taught. Topics taught during this year are included in this category regardless if taught before this year.

^() Standard errors appear in parentheses. Because results are rounded to the nearest whole number, some totals may appear inconsistent.

An "r" indicates teacher response data available for 70-84% of students. An "s" indicates teacher response data available for 50-69% of students. An "x" indicates teacher response data available for <50% of students.



				Percentage	of Students		
		Taught Top This Yea		Taught	Topics During This	Year¹	Not Yet Taught
		More Than 80% of Topics	More Than 50% Up to and Including 80% of Topics	More Than 50% of Topics Each Taught More Than 5 Periods	More Than 50% of Topics Each Taught at Least 1-5 Periods	50% or Less of Topics Taught	50% or More of Topics
Countries							
United States	r	2 (0.8)	1 (0.4)	49 (4.0)	43 (4.1)	2 (1.3)	2 (1.1)
Belgium (Flemish)	r	3 (2.6)	2 (1.1)	30 (4.4)	37 (4.7)	2 (1.3)	26 (4.8)
Canada	r	2 (0.9)	0 (0.3)	47 (3.1)	47 (3.0)	2 (0.9)	1 (0.7)
Chinese Taipei		31 (4.1)	6 (2.3)	10 (2.5)	26 (3.8)	4 (1.7)	23 (3.9)
Czech Republic	r	2 (1.7)	3 (0.8)	11 (3.7)	52 (5.6)	9 (3.2)	22 (4.4)
England	S	2 (1.1)	3 (2.0)	46 (5.1)	46 (5.0)	1 (0.5)	2 (1.1)
Hong Kong, SAR		18 (3.5)	10 (2.6)	12 (3.1)	27 (3.9)	9 (2.7)	24 (3.8)
Italy		25 (3.4)	14 (2.5)	11 (2.8)	32 (3.6)	14 (3.0)	5 (1.8)
Japan		11 (2.5)	8 (2.5)	28 (3.9)	44 (4.2)	5 (1.7)	5 (1.8)
Korea, Rep. of		8 (1.9)	4 (1.7)	14 (2.9)	59 (4.0)	6 (2.0)	9 (2.3)
Netherlands		3 (2.8)	0 (0.0)	1 (0.7)	96 (3.0)	1 (0.7)	0 (0.0)
Russian Federation							
Singapore		13 (3.2)	8 (2.5)	18 (3.5)	46 (4.5)	9 (2.5)	6 (2.4)
States							
	S	6 (3.8)	1 (0.1)	64 (6.7)	28 (7.1)	1 (0.9)	0 (0.0)
	S	7 (2.8)	0 (0.1)	35 (8.7)	56 (8.3)	0 (0.0)	1 (0.6)
Illinois		1 (1.4)	0 (0.0)	57 (5.0)	35 (5.5)	4 (2.8)	3 (2.1)
Indiana	r	5 (2.9)	1 (0.1)	44 (7.6)	49 (8.2)	1 (0.6)	0 (0.0)
Maryland 	r	1 (0.7)	0 (0.0)	74 (5.3)	24 (5.1)	0 (0.0)	1 (0.8)
Massachusetts	r	0 (0.0)	1 (0.9)	66 (6.6)	33 (6.6)	0 (0.0)	0 (0.2)
Michigan	r	1 (1.0)	1 (0.6)	67 (6.3)	31 (6.0)	0 (0.0)	0 (0.5)
Missouri	r	4 (2.4)	0 (0.0)	48 (5.0)	41 (5.5)	4 (2.3)	3 (2.7)
North Carolina		2 (1.2)	1 (1.1)	49 (4.5)	35 (6.1)	7 (3.6)	6 (3.1)
Oregon		0 (0.0)	0 (0.0)	59 (8.1)	39 (7.6)	0 (0.0)	2 (1.4)
<i>Pennsylvania</i> South Carolina	r	3 (2.7)	0 (0.2)	53 (7.5)	35 (5.6)	8 (2.1)	1 (0.6)
		2 (0.1)	0 (0.0)	61 (5.9)	35 (6.0)	0 (0.0)	2 (1.4)
Texas Districts and Consortia	r	8 (5.3)	0 (0.0)	59 (6.3)	33 (6.4)	0 (0.0)	0 (0.2)
Academy School Dist. #20, CO		0 (0.0)	0 (0.0)	74 (0.4)	26 (0.4)	0 (0.0)	0 (0.0)
Chicago Public Schools, IL	r	0 (0.0)	0 (0.0)	62 (13.3)	33 (11.7)	0 (0.0)	6 (0.8)
	S	4 (0.7)	3 (2.4)	59 (6.3)	34 (6.4)	0 (0.0)	0 (0.8)
First in the World Consort., IL	5	4 (1.6)	0 (0.0)	84 (2.5)	12 (3.1)	0 (0.0)	1 (0.8)
Fremont/Lincoln/WestSide PS, NE	r	0 (0.0)	0 (0.0)	50 (7.5)	50 (7.5)	0 (0.0)	0 (0.0)
Guilford County, NC	r	3 (2.1)	2 (0.8)	58 (3.4)	36 (3.8)	1 (1.2)	0 (0.0)
Jersey City Public Schools, NJ	r	0 (0.0)	0 (0.0)	61 (5.2)	39 (5.2)	0 (0.0)	0 (0.0)
	s	5 (3.5)	0 (0.4)	65 (7.1)	30 (6.0)	0 (0.0)	0 (0.0)
Michigan Invitational Group, MI	r	8 (2.9)	0 (0.0)	61 (6.8)	29 (5.8)	2 (0.1)	0 (0.0)
Montgomery County, MD		хх	x x	x x	x x	хх	x x
Naperville Sch. Dist. #203, IL		0 (0.0)	0 (0.0)	100 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Project SMART Consortium, OH	r	2 (0.1)	0 (0.0)	44 (3.4)	52 (3.4)	2 (0.6)	0 (0.0)
Rochester City Sch. Dist., NY	r	0 (0.0)	0 (0.0)	51 (4.9)	49 (4.9)	0 (0.0)	0 (0.0)
SW Math/Sci. Collaborative, PA		1 (1.2)	0 (0.3)	43 (6.4)	49 (7.5)	6 (5.1)	0 (0.0)
	Ţ						
International Avg.		9 (0.4)	4 (0.3)	22 (0.6)	44 (0.8)	6 (0.4)	15 (0.6)
(All Countries)							

Background data provided by teachers.

Categories of topic coverage for scientific inquiry and the nature of science are based on combined responses to questions about the individual science subtopics in the content area described in Exhibit 5.25.

¹ For each topic in Exhibit 5.25, teachers were asked if the topic was taught before this year, taught 1-5 periods this year, taught more than 5 periods this year, or not yet taught. Topics taught during this year are included in this category regardless if taught before this year.

^() Standard errors appear in parentheses. Because results are rounded to the nearest whole number, some totals may appear inconsistent.

A dash (-) indicates data are not available.

An "r" indicates teacher response data available for 70-84% of students. An "s" indicates teacher response data available for 50-69% of students. An "x" indicates teacher response data available for <50% of students.