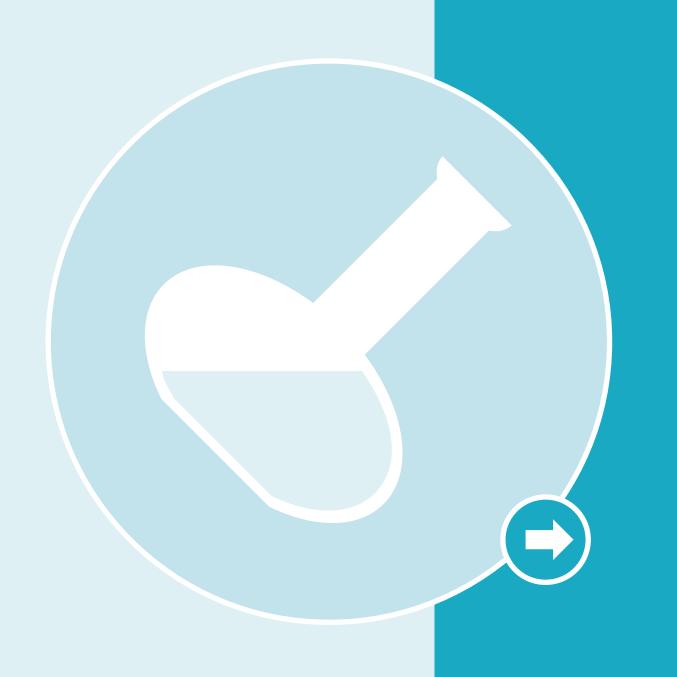
REFERENCE 2

The Science C rric I m





	Achie eme Sadad
Australia	Achie ement tandard are tated a learning ot come.
Belgium (Flemish)	Achie ement tandard are taled interm of final learning objectile for A Stream and de elopmental objectile for B Stream. Still dent not meeting the tandard man need to repeat he grade, receile rediced hor of intriction, or be moled to an ealier claim.
Bulgaria	The c rric I m doe not incorpora e achie ement tandard.
Canada	Achie ement tandard are pre-cribed learning of come of the tem "toe.pec edthat todentillow or contained in pplementar re-or-recook."
Chile	There are no performance tandard bithere are objectile de cribing has to dent hold learn. The relied conficilim ill include performance tandard taled a lepecied learning of come.
Chinese Taipei	The c rric I m doe not incorpora e achie ement t andard .
Cyprus	The c rric I m doe not incorpora e achie ement tandard.
Czech Republic	The crric Improide a decription of the kill and kno ledge t dent mit haie. Teacher decide if the tident haime the crric Imprond ton identhi in promotion. If a tident fail a ingle bject the tident mit repeathe grade.
England	Achie ement tandard are etabli hed a a tem of le el , each le el thit on de cription of performance. On a erage, a age 7 to dentare e. pec edto be a le el 2; a age 11 le el 4; and a age 13 le el 5/6. One le el i regarded a to ear progre.
Finland	The c rric I m doe not incorpora e achie ement tandard.
Hong Kong, SAR	The c rric I m doe not incorporate achie ement tandard.
Hungary	9 andard are taled a learning object e.
Indonesia	There are in tricional objection in the cirric in mit to performance tandard.
Iran, Islamic Rep.	The c rric l m doe not incorpora e achie ement tandard.
Israel	The c rric l m doe not incorpora e achie ement t andard.
Italy	The c rric l m doe not incorpora e achie ement t andard.
Japan	Achie ement tandard are tated inthe national cirric I mallearning objectie, cha "To help tident" or "To enable tident to ".
Jordan	Object e are defined int he c rric I m andt he minim m percent of at ainment for each object e i pecified.
Korea, Rep. of	Achie ement tandard ill be inclided inthe relied cirric Im (obe implemented at he & h grade in 2001).
Latvia (LSS)	The c rric 1 m incorpora e achie ement tandard.
Lithuania	Achie ement andard are not a part of cirric la, bit are prepared a leparate dociment. The draft of the National Edicational Standard a releated in 1997. A lof 1999, the dociment had not been officially approted.
Macedonia, Rep. of	In phic and geographiachie ement andard are taled a the compilor kno ledge and kill hich hold be at ained bill tident. In biologi and chemit riachie ement tandard are taled a learning objectie.
Malaysia	Achie ement tandard are tated a cientific kill inthe cirric I micontent pecification dociment.
Moldova	The c rric m incorpora e achie ement t andard .
Morocco	The c rric I m doe not incorpora e achie ement tandard.
Netherlands	Achie ement tandard are taled a learning objectie, cha "S dent de elop a compétence" or "S dent learntoire earch"
New Zealand	Achie ement tandard are taled a learning of come expre ed a eight le el of learning independent of age and grade.
Philippines	Achie ement tandard are tated a learning competencie.
Romania	The achie ement tandard are tated a learning objectie, cha "The t dent hold be ableto arrietata conclion bated on
Russian Federation	Achie ement tandard are taled a knolledge and kill hich hold be at ained bit dent bit he end of balic chool.
Singapore	
Slovak Republic	Learning object e are incl ded in: he c rric l m. Performance : andard are in de elopmen .
Slovenia	
South Africa	The tandard are not pecific. A lit of content to be collered in provided.
Thailand	Achie ement tandard are taled a learning object i e .
Tunisia	Achie ement tandard are taled a learning objectile.
Turkey	Achie ement tandard are taled a objectile, cha "Abilit to Indertand/kno"
United States	For tale that have cience tandard, indicalor or benchmark are included.
Officed States	

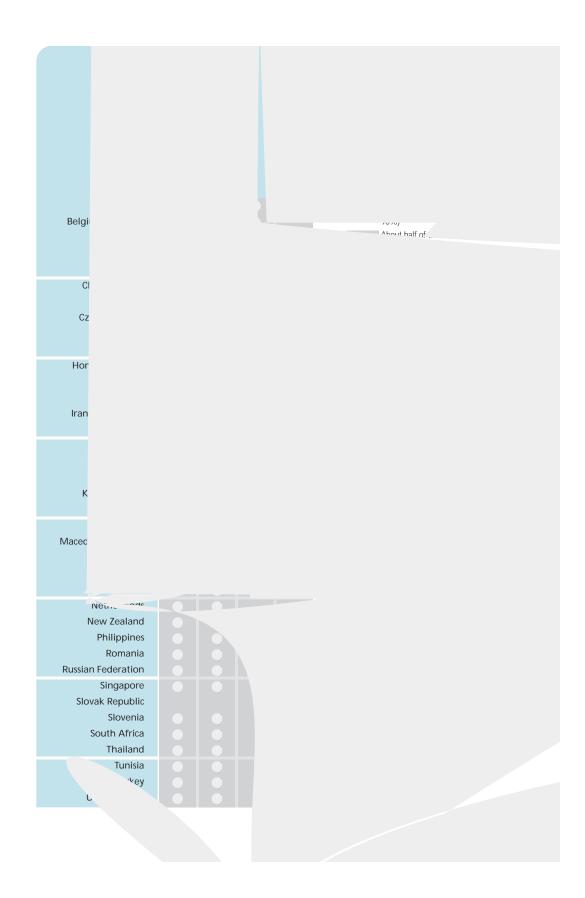
Background data provided by schools.

A dash (-) indicates data are not available.

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.

Lithuania tested the same cohort of students as other countries, but later in 1999, at the beginning of the next school year.

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



Australia				
Belgium (Flemish)				
Bulgaria				
Canada				
Chile				
Chinese Taipei				
Cyprus				
Czech Republic				
England				
Finland				
Hong Kong, SAR				
Hungary				
Indonesia				
Iran, Islamic Rep.				
Israel				
Italy				
Japan				
Jordan				
Korea, Rep. of				
Latvia (LSS)				
Lithuania				
Macedonia, Rep. of				
Malaysia				
Moldova				
Morocco				
Netherlands				
New Zealand				
Philippines				
Romania				
Russian Federation				
Singapore				
Slovak Republic				
Slovenia				
South Africa				
Thailand				
Tunisia				
Turkey				
United States				

- 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

Australia Belgium (Flemish) Bulgaria Canada Chile Chinese Taipel Cyprus Czech Republic England Finiand Hong Kong, SAR Hungary Indonesia Iran, Islamic Rep. Israel Italy Japan Jordan Korea, Rep. of Lativia (USS) Lithuania Macedonia, Rep. of Malaysia Moldova Morocco Netherlands New Zealand Philippines Romania Russian Federation Singapore Slovak Republic Slovenia South Africa Thailand Turnisia Turkey Litivies States						
Belgium (Flemish) Bulgaria Canada Chille Chinese Taipei Cyprus Czech Republic England Finland Hong Kong, SAR Hungary Indonesia Iran, Islamic Rep. Israel Italy Japan Jordan Korea, Rep. of Latvia (LSS) Lithuania Macedonia, Rep. of Malaysia Moldova Morocco Netherlands New Zealand Philippines Romania Russian Federation Singapore Slovak Republic Slovenia South Africa Thailand Turisia Turkey						
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Japan Jordan Korea, Rep. of Latvia (LSS) Lithuania Macedonia, Rep. of Malaysia Moldova Morocco Netherlands New Zealand Philippines Romania Russian Federation Singapore Slovak Republic Slovenia South Africa Thailand Turkey	Israel					
Jordan Korea, Rep. of Latvia (LSS) Lithuania Macedonia, Rep. of Malaysia Moldova Morocco Netherlands New Zealand Philippines Romania Russian Federation Singapore Slovak Republic Slovenia South Africa Thailand Turkey	Italy					
Korea, Rep. of Latvia (LSS) Lithuania Macedonia, Rep. of Malaysia Moldova Morocco Netherlands New Zealand Philippines Romania Russian Federation Singapore Slovak Republic Slovenia South Africa Thailand Turkey	Japan					
Latvia (LSS) Lithuania Macedonia, Rep. of Malaysia Moldova Morocco Netherlands New Zealand Philippines Romania Russian Federation Singapore Slovak Republic Slovenia South Africa Thailand Tunisia Turkey	Jordan					
Lithuania Macedonia, Rep. of Malaysia Moldova Morocco Netherlands New Zealand Philippines Romania Russian Federation Singapore Slovak Republic Slovenia South Africa Thailand Tunisia Turkey	Korea, Rep. of					
Lithuania Macedonia, Rep. of Malaysia Moldova Morocco Netherlands New Zealand Philippines Romania Russian Federation Singapore Slovak Republic Slovenia South Africa Thailand Tunisia Turkey	Latvia (LSS)					
Malaysia Moldova Morocco Netherlands New Zealand Philippines Romania Russian Federation Singapore Slovak Republic Slovenia South Africa Thailand Turkey	Lithuania					
Malaysia Moldova Morocco Netherlands New Zealand Philippines Romania Russian Federation Singapore Slovak Republic Slovenia South Africa Thailand Turkey	Macedonia, Rep. of					
Moldova Morocco Netherlands New Zealand Philippines Romania Russian Federation Singapore Slovak Republic Slovenia South Africa Thailand Tunisia Turkey						
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Tunisia Turkey						
Turkey						
	Tunisia					
United States	Turkey					
Officed States	United States					

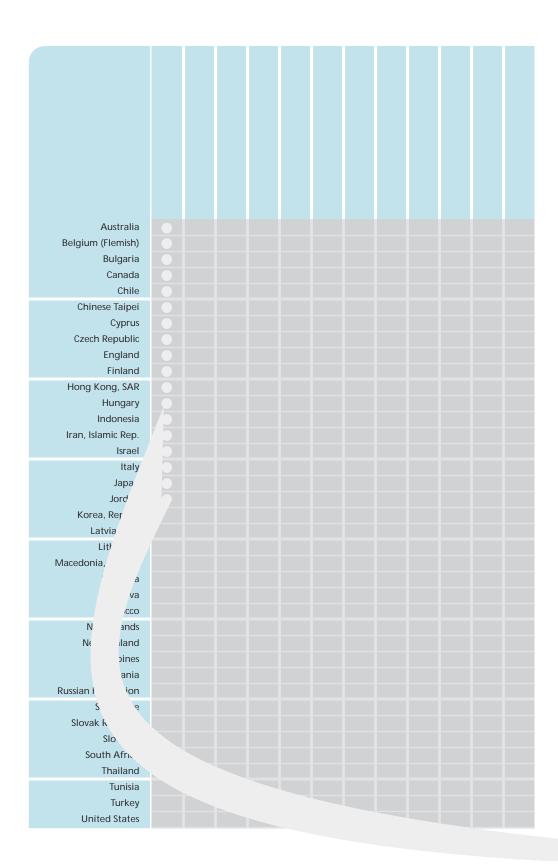
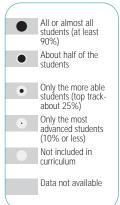


Exhibit R2.7

Detailed Information About Topics in the Intended Curriculum, Up to and Including Eighth Grade - Environmental and Resource Issues



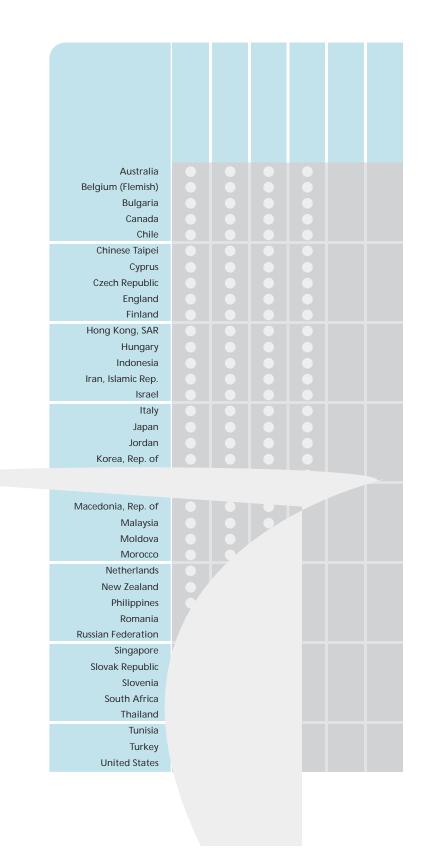
	Pollution (acid rain, global warming, ozone layer, water pollution)	Conservation of natural resources (land, water, forests, energy sources)	Food supply and production, population, and environmental effects of natural and man-made events
Australia Belgium (Flemish) Bulgaria	•		•
Canada Chile			
Chinese Taipei			
Cyprus Czech Republic	•	•	
England	•		
Finland		•	
Hong Kong, SAR Hungary	•	•	
Indonesia		•	
Iran, Islamic Rep.		•	
Israel Italy			
Japan			
Jordan		•	
Korea, Rep. of Latvia (LSS)			
Lithuania			
Macedonia, Rep. of Malaysia	•	•	
Moldova			
Morocco	•	•	
Netherlands New Zealand	•		
Philippines			
Romania	•	•	•
Russian Federation Singapore			
Slovak Republic			
Slovenia	•	•	
South Africa Thailand			
Tunisia			
Turkey	•	•	3
United States			



Background data provided by National Research Coordinators.









8

	Pe ce age f S de							
	Ta gh Bef e Thi	T ic Yea⁴O I	Ta gh	Tagh T ic D ig Thi Yea¹				
	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 Least1-5 Periods	50% or Less of Topics Taught	N Ye Tagh 50% M e f Tic		
Australia	6 (1.7)	11 (2.2)	10 (1.8)	18 (2.5)	21 (3.1)	34 (2.9)		
Belgium (Flemish)	4 (1.8)	12 (2.4)	2 (1.3)	10 (2.7)	12 (2.8)	60 (4.1)		
Bulgaria	1 (0.6)	1 (0.0)	45 (5.6)	52 (5.9)	1 (0.1)	1 (0.6)		
Canada	17 (2.6)	12 (2.5)	21 (2.8)	22 (2.8)	14 (2.8)	16 (2.6)		
Chile	29 (3.4)	22 (3.5)	15 (2.9)	17 (2.9)	11 (2.4)	7 (2.0)		
Chinese Taipei ²								
Cyprus	10 (2.8)	12 (3.9)	1 (0.1)	6 (3.3)	8 (3.1)	62 (5.6)		
Czech Republic	45 (6.3)	11 (3.4)	6 (1.9)	23 (4.2)	13 (3.7)	2 (1.2)		
England	22 (4.2)	13 (3.6)	0 (0.0)	24 (4.2)	14 (4.0)	27 (3.5)		
Finland	3 (1.5)	3 (1.8)	6 (2.0)	27 (3.7)	5 (1.7)	56 (4.1)		
Hong Kong, SAR	1 (0.1)	0 (0.0)	2 (1.6)	7 (2.9)	1 (0.1)	88 (3.6)		
Hungary	1 (1.0)	25 (3.4)	17 (3.3)	19 (3.4)	15 (3.0)	23 (3.7)		
Indonesia	4 (1.9)	4 (1.6)	12 (3.3)	67 (4.6)	10 (2.7)	2 (1.2)		
Iran, Islamic Rep.	26 (4.2)	25 (3.7)	0 (0.5)	14 (2.9)	6 (1.8)	29 (4.0)		
Israel								
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)		
Jordan	9 (2.4)	29 (4.1)	4 (1.8)	18 (3.8)	28 (4.2)	13 (3.0)		
Korea, Rep. of	4 (1.6)	13 (3.0)	12 (2.8)	22 (3.4)	41 (4.0)	8 (2.1)		
Latvia (LSS)	23 (4.6)	16 (3.8)	3 (1.7)	26 (4.7)	14 (3.0)	17 (4.1)		
Lithuania								
Macedonia, Rep. of	53 (4.9)	14 (3.5)	4 (1.8)	9 (2.7)	6 (2.1)	15 (2.4)		
Malaysia	3 (1.5)	5 (2.0)	2 (1.2)	3 (1.4)	4 (1.6)	84 (3.3)		
Moldova								
Morocco	0 (0 0)	4 (0.0)	40 (2.5)	50 (5 a)	4.4 (2.0)	47 (47)		
Netherlands	0 (0.0)	1 (0.8)	10 (3.5)	59 (6.0)	14 (3.8)	17 (4.7)		
New Zealand	3 (1.4)	4 (2.0)	7 (2.1)	21 (3.5)	4 (1.5)	61 (3.6)		
Philippines	4 (1.7)	9 (2.3)	29 (4.1)	47 (4.5)	8 (2.3)	3 (1.5)		
Romania Russian Federation	60 (4.1)	12 (2.9)	7 (3.2)	15 (3.3)	5 (1.6)	0 (0.0)		
Singapore South Africa	* *					* *		
Thailand	5 (1.8)	2 (1.2)	19 (3.0)	62 (4.3)	4 (1.8)	9 (2.3)		
Tunisia	2 (1.2)	2 (1.2)	2 (1.2)	1 (1.0)	2 (1.4)	92 (2.6)		
Turkey	15 (2.6)	13 (2.5)	3 (1.2)	10 (2.3)	2 (1.4) 4 (1.5)	92 (2.6) 55 (4.3)		
United States	20 (3.1)	12 (2.6)	26 (3.4)	20 (2.1)	11 (2.3)	11 (2.4)		
Officed States	20 (3.1)	12 (2.0)	20 (3.4)	20 (2.1)	11 (2.3)	11 (2.4)		
Ie ai al Ag.	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 5.12.

- 1 For each topic in exhibit 5.12, 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, regardless if taught before this year, are included in this category.
- $2\,\,$ Data for grade 9 earth science teachers not available.
- ‡ Lithuania tested the same cohort of students as other countries, but later in 1999, at the beginning of the next school year.

Science teacher background data for Slovak Republic and Slovenia are unavailable.

() 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.







Australia Belgium (Flemish) Bulgaria Canada Chile Chinese Taipei Cyprus Czech Republic England Finland Hong Kong, SAR Hungary Indonesia Iran, Islamic Rep. Israel Italy Japan Jordan Korea, Rep. of Latvia (LSS)						
Lithuania Macedonia, Rep. of Malayt74 TD(N	Mala19w014 Ta57	14 TD(1.5714lude	d 0 1 k/n)arul72La	atvia (LSSM6)Tj-4.c	:[(Mai4 TD(alaont	s as other countries).

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 5.15.
- 1 For each topic in exhibit 5.15, 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, regardless if taught before this year, are included in this category.
- Lithuania tested the same cohort of students as other countries, but later in 1999, at the beginning of the next school year.

Science teacher background data for Slovak Republic and Slovenia are unavailable.

() 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.

Australia			

Background data provided by teachers.

- 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 5.16.
- 1 For each topic in exhibit 5.16, 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, regardless if taught before this year, are included in this category.
- ‡ Lithuania tested the same cohort of students as other countries, but later in 1999, at the beginning of the next school year.

Science teacher background data for Slovak Republic and Slovenia are unavailable.

- () 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.

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 5.17.

1

