

**TIMSS 2011 TCMA National Item Selection**
**Fourth-Grade Science**

		Country																				
		Item (pts)																				
		● Item covered in national curriculum										○ Item not covered in national curriculum										
		Armenia	Australia	Austria	Azerbaijan	Belgium (Flemish)	Chile	Chinese Taipei	Croatia	Czech Republic	Denmark	England	Finland	Germany	Hong Kong SAR	Hungary	Iran, Islamic Rep. of	Ireland	Italy	Japan	Kazakhstan	Korea, Rep. of
S01_01	S031356	(1)	●	●	●	●	●	●	○	○	●	●	●	●	●	●	●	●	●	●	●	●
S01_02	S031291	(1)	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S01_03	S031230	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S01_04	S031325	(1)	●	○	●	●	●	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S01_05	S031068	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S01_06	S031418	(1)	●	●	●	○	●	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S01_07Z	S031197Z	(2)	●	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S01_08	S031371	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S01_09	S031376	(1)	●	○	○	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S01_10	S031044	(1)	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S01_11Z	S031390Z	(2)	●	●	●	●	●	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S02_01	S051057	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S02_02	S051032	(1)	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S02_03Z	S051049Z	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S02_04	S051033	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S02_05	S051173	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S02_06	S051086	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S02_07	S051179	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S02_08	S051074	(1)	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S02_09	S051119	(1)	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S02_10	S051071	(1)	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S02_11	S051100	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S02_12	S051156	(1)	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S03_01	S041117	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S03_02	S041120	(1)	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S03_03	S041003	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S03_04	S041224	(2)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S03_05	S041163	(1)	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S03_06	S041039	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S03_07	S041014	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S03_08	S041181	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S03_09	S041174	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S03_10	S041049	(1)	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S03_11	S041208	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S03_12	S041060	(1)	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S03_13A	S041201A	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S03_13B	S041201B	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S04_01	S051041	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S04_02	S051037	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S04_03	S051008	(1)	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S04_04	S051004	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S04_05Z	S051026Z	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S04_06	S051130	(1)	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S04_07	S051114	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S04_08Z	S051121Z	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S04_09	S051147	(1)	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S04_10	S051105	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S04_11	S051110	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S04_12	S051111	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S05_01	S031340	(1)	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

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		<ul style="list-style-type: none"> <li>● Item covered in national curriculum</li> <li>○ Item not covered in national curriculum</li> </ul>																			
		Poland	Portugal	Qatar	Romania	Russian Federation	Serbia	Singapore	Slovak Republic	Slovenia	Spain	Sweden	Thailand	Tunisia	Turkey	United Arab Emirates	United States	Yemen	Sixth Grade Countries		
S01_01	S031356	(1)	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S01_02	S031291	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S01_03	S031230	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S01_04	S031325	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S01_05	S031068	(1)	●	●	○	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S01_06	S031418	(1)	●	●	○	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S01_07Z	S031197Z	(2)	●	●	●	●	○	●	○	●	●	●	●	●	●	●	●	●	●	●	●
S01_08	S031371	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S01_09	S031376	(1)	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S01_10	S031044	(1)	○	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S01_11Z	S031390Z	(2)	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S02_01	S051057	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S02_02	S051032	(1)	○	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S02_03Z	S051049Z	(1)	○	●	○	●	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S02_04	S051033	(1)	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S02_05	S051173	(1)	○	●	○	●	●	○	○	○	○	●	●	●	●	●	●	●	●	●	●
S02_06	S051086	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S02_07	S051179	(1)	●	●	○	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S02_08	S051074	(1)	○	●	○	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S02_09	S051119	(1)	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S02_10	S051071	(1)	○	○	○	●	●	○	○	○	●	●	●	●	●	●	●	●	●	●	●
S02_11	S051100	(1)	●	●	○	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S02_12	S051156	(1)	○	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S03_01	S041117	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S03_02	S041120	(1)	○	●	○	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S03_03	S041003	(1)	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S03_04	S041224	(2)	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S03_05	S041163	(1)	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S03_06	S041039	(1)	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S03_07	S041014	(1)	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S03_08	S041181	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S03_09	S041174	(1)	○	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S03_10	S041049	(1)	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S03_11	S041208	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S03_12	S041060	(1)	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S03_13A	S041201A	(1)	○	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S03_13B	S041201B	(1)	○	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S04_01	S051041	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S04_02	S051037	(1)	○	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S04_03	S051008	(1)	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S04_04	S051004	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S04_05Z	S051026Z	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S04_06	S051130	(1)	○	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S04_07	S051114	(1)	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S04_08Z	S051121Z	(1)	○	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S04_09	S051147	(1)	○	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S04_10	S051105	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S04_11	S051110	(1)	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S04_12	S051111	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S05_01	S031340	(1)	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

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		Item (pts)																			
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		Armenia	Australia	Austria	Azerbaijan	Belgium (Flemish)	Chile	Chinese Taipei	Croatia	Czech Republic	Denmark	England	Finland	Germany	Hong Kong SAR	Hungary	Iran, Islamic Rep. of	Ireland	Italy	Japan	Kazakhstan
S05_02	S031236 (1)	●	●	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S05_03Z	S031391Z (2)	●	●	●	●	●	○	●	●	●	●	●	●	●	○	●	●	●	●	●	●
S05_04	S031361 (1)	●	●	●	●	●	○	○	○	●	●	●	○	●	●	●	●	●	●	●	●
S05_05	S031001 (1)	●	●	●	●	●	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S05_07	S031410 (1)	●	○	●	●	●	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S05_08	S031421 (1)	●	●	●	●	●	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S05_09	S031298 (1)	●	●	●	●	●	○	○	●	○	●	●	●	●	●	●	●	●	●	●	●
S05_10	S031076 (1)	●	●	●	●	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S05_11	S031275 (1)	●	●	●	○	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S06_01	S041311 (1)	●	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S06_02	S041178 (1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S06_03	S041182 (1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S06_04	S041180 (1)	●	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S06_05	S041187 (1)	●	●	●	○	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S06_06A	S041013A (1)	●	○	●	●	●	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S06_06B	S041013B (1)	●	○	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S06_07	S041067 (1)	●	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S06_08	S041305 (1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S06_09	S041048 (1)	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S06_10	S041110 (1)	●	●	○	●	●	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S06_11	S041069 (1)	●	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S06_12	S041100 (1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S06_13	S041092 (1)	●	○	●	●	●	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S07_01	S031254 (1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S07_02	S031266 (1)	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S07_03	S031233 (1)	●	●	●	○	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S07_04	S031204 (1)	●	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S07_05	S031273 (1)	●	○	●	●	●	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S07_06	S031299 (1)	●	●	●	○	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●
S07_07	S031281 (1)	●	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S07_08	S031077 (1)	●	○	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S07_09	S031311 (1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S07_10Z	S031088Z (2)	●	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S07_11	S031389 (1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S08_01	S051044 (1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S08_03	S051003 (1)	●	○	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S08_04	S051168 (1)	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S08_05	S051010 (1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S08_06	S051035 (1)	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S08_07	S051059 (1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S08_08	S051142 (1)	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S08_09A	S051131A (1)	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S08_09B	S051131B (1)	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S08_10	S051151 (1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S08_11	S051157 (1)	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S09_01	S041009 (1)	●	●	●	●	●	●	○	○	●	●	●	●	●	●	●	●	●	●	●	●
S09_02	S041223 (1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S09_03	S041026 (1)	●	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S09_04	S041177 (2)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S09_05	S041183 (2)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

**TIMSS 2011 TCMA National Item Selection**

**Fourth-Grade Science**

		Country																		
		Item (pts)																		
S05_02	S031236 (1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S05_03Z	S031391Z (2)	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S05_04	S031361 (1)	○	○	○	●	●	○	○	○	●	●	●	●	●	●	●	●	●	●	●
S05_05	S031001 (1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S05_07	S031410 (1)	○	●	●	●	●	○	●	○	●	●	●	●	●	●	●	●	●	●	●
S05_08	S031421 (1)	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S05_09	S031298 (1)	○	●	●	●	●	○	●	●	○	●	●	●	●	●	●	●	●	●	●
S05_10	S031076 (1)	○	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S05_11	S031275 (1)	●	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S06_01	S041311 (1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S06_02	S041178 (1)	○	●	●	●	●	○	●	○	●	●	●	●	●	●	●	●	●	●	●
S06_03	S041182 (1)	●	●	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●
S06_04	S041180 (1)	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S06_05	S041187 (1)	●	●	●	●	●	○	●	○	●	●	●	●	●	●	●	●	●	●	●
S06_06A	S041013A (1)	○	●	●	●	●	○	●	○	●	●	●	●	●	●	●	●	●	●	●
S06_06B	S041013B (1)	○	●	●	●	●	●	○	●	○	●	●	●	●	●	●	●	●	●	●
S06_07	S041067 (1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S06_08	S041305 (1)	●	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S06_09	S041048 (1)	●	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S06_10	S041110 (1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S06_11	S041069 (1)	○	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S06_12	S041100 (1)	●	●	●	○	●	○	●	○	●	●	●	●	●	●	●	●	●	●	●
S06_13	S041092 (1)	●	●	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●
S07_01	S031254 (1)	●	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S07_02	S031266 (1)	○	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S07_03	S031233 (1)	○	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S07_04	S031204 (1)	○	●	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●
S07_05	S031273 (1)	○	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S07_06	S031299 (1)	○	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S07_07	S031281 (1)	●	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S07_08	S031077 (1)	○	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S07_09	S031311 (1)	○	○	○	●	○	●	●	○	●	●	●	●	●	●	●	●	●	●	●
S07_10Z	S031088Z (2)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S07_11	S031389 (1)	○	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S08_01	S051044 (1)	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S08_03	S051003 (1)	●	●	●	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●
S08_04	S051168 (1)	●	●	●	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●
S08_05	S051010 (1)	●	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S08_06	S051035 (1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S08_07	S051059 (1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S08_08	S051142 (1)	○	●	●	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●
S08_09A	S051131A (1)	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S08_09B	S051131B (1)	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S08_10	S051151 (1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S08_11	S051157 (1)	○	○	○	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●
S09_01	S041009 (1)	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S09_02	S041223 (1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S09_03	S041026 (1)	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S09_04	S041177 (2)	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S09_05	S041183 (2)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

		Country																			
		Item (pts)																			
		<ul style="list-style-type: none"> <li>● Item covered in national curriculum</li> <li>○ Item not covered in national curriculum</li> </ul>																			
		Armenia	Australia	Austria	Azerbaijan	Belgium (Flemish)	Chile	Chinese Taipei	Croatia	Czech Republic	Denmark	England	Finland	Germany	Hong Kong SAR	Hungary	Iran, Islamic Rep. of	Ireland	Italy	Japan	Kazakhstan
S09_06	S041008 (1)	●	●	●	●	●	●	●	○	●	●	●	○	●	●	●	●	●	●	●	●
S09_08	S041195 (1)	●	○	●	○	○	○	○	●	●	●	●	○	●	●	●	●	●	●	●	●
S09_09A	S041134A (1)	●	○	●	○	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S09_09B	S041134B (1)	●	○	●	○	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S09_09C	S041134C (1)	●	○	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S09_10	S041191 (1)	●	●	●	●	●	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S09_11	S041107 (2)	●	●	○	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S09_12	S041113 (1)	●	●	○	●	●	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S10_01	S051185 (1)	●	○	●	●	○	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S10_02	S051048 (2)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S10_03	S051164 (1)	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S10_04	S051186 (1)	●	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S10_05	S051137 (1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S10_06	S051007 (1)	●	●	●	●	●	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S10_07	S051087 (1)	●	●	●	●	●	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S10_08Z	S051188Z (1)	●	●	●	●	●	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S10_10	S051201 (1)	●	●	●	●	●	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S10_11	S051102 (1)	●	●	●	●	●	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S10_12	S051095 (1)	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S11_01	S041027 (1)	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S11_02	S041043 (1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S11_03	S041050 (1)	●	●	●	●	●	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S11_04	S041070 (1)	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S11_05	S041006 (2)	●	●	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S11_06	S041052 (1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S11_07	S041301 (1)	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S11_09	S041033 (1)	●	○	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S11_11	S041077 (1)	●	○	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S11_12	S041209 (1)	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S11_13	S041081 (2)	●	●	○	●	●	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S11_14	S041102 (1)	●	●	●	●	●	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S12_01	S051161 (1)	●	●	●	●	●	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S12_02	S051051 (1)	●	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S12_03Z	S051138Z (1)	●	●	●	●	●	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S12_04	S051194 (1)	●	●	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S12_05	S051029 (1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S12_06	S051077 (1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S12_07	S051200 (1)	●	●	●	●	●	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S12_08	S051075 (1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S12_09	S051065 (1)	●	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S12_10	S051191 (1)	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S12_11	S051099 (1)	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S12_12	S051175 (1)	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S13_01	S041010 (1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S13_02	S041034 (1)	●	●	●	●	●	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S13_03	S041017 (1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S13_04	S041124 (1)	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S13_05	S041186 (1)	●	○	●	●	●	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S13_06	S041037 (2)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S13_07	S041119 (1)	●	●	●	●	●	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●

## TIMSS 2011 TCMA National Item Selection

## Fourth-Grade Science

		Country																		
		Item (pts)																		
Item (pts)	Country	National Curriculum Coverage																		
		Poland	Portugal	Qatar	Romania	Russian Federation	Serbia	Singapore	Slovak Republic	Slovenia	Spain	Sweden	Thailand	Tunisia	Turkey	United Arab Emirates	United States	Yemen	Sixth Grade Countries	
S09_06	S041008 (1)	●	●	●	●	●	○	●	●	●	●	○	●	●	●	●	●	○	●	●
S09_08	S041195 (1)	○	●	●	●	○	●	○	○	●	●	●	●	●	●	●	●	●	●	●
S09_09A	S041134A (1)	○	●	○	●	○	●	○	○	●	●	●	●	●	●	●	●	●	●	●
S09_09B	S041134B (1)	○	●	○	●	○	●	○	○	●	●	●	●	●	●	●	●	●	●	●
S09_09C	S041134C (1)	○	●	○	●	○	●	○	○	●	●	●	●	●	●	●	●	●	●	●
S09_10	S041191 (1)	○	●	●	●	○	●	●	○	●	●	●	●	●	●	●	●	●	●	●
S09_11	S041107 (2)	●	●	○	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S09_12	S041113 (1)	●	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S10_01	S051185 (1)	●	●	○	●	●	○	○	●	●	●	●	●	●	●	●	●	●	●	●
S10_02	S051048 (2)	●	●	●	●	●	○	●	○	●	●	●	●	●	●	●	●	●	●	●
S10_03	S051164 (1)	○	○	●	●	○	●	○	○	○	●	●	●	●	●	●	●	●	●	●
S10_04	S051186 (1)	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S10_05	S051137 (1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S10_06	S051007 (1)	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S10_07	S051087 (1)	○	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S10_08Z	S051188Z (1)	●	●	●	○	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S10_10	S051201 (1)	○	●	●	●	○	○	●	●	○	○	●	●	●	●	●	●	●	●	●
S10_11	S051102 (1)	●	●	●	○	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●
S10_12	S051095 (1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S11_01	S041027 (1)	●	●	●	●	●	●	○	○	●	●	●	●	●	●	●	●	●	●	●
S11_02	S041043 (1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S11_03	S041050 (1)	○	●	○	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S11_04	S041070 (1)	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S11_05	S041006 (2)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S11_06	S041052 (1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S11_07	S041301 (1)	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S11_09	S041033 (1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S11_11	S041077 (1)	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S11_12	S041209 (1)	●	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S11_13	S041081 (2)	●	○	○	○	○	○	○	○	●	●	●	●	●	●	●	●	●	●	●
S11_14	S041102 (1)	●	●	●	○	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●
S12_01	S051161 (1)	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S12_02	S051051 (1)	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S12_03Z	S051138Z (1)	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S12_04	S051194 (1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S12_05	S051029 (1)	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S12_06	S051077 (1)	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S12_07	S051200 (1)	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S12_08	S051075 (1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S12_09	S051065 (1)	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S12_10	S051191 (1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S12_11	S051099 (1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S12_12	S051175 (1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S13_01	S041010 (1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S13_02	S041034 (1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S13_03	S041017 (1)	●	○	●	●	●	○	○	●	●	●	●	●	●	●	●	●	●	●	●
S13_04	S041124 (1)	○	●	○	●	●	○	●	○	●	●	●	●	●	●	●	●	●	●	●
S13_05	S041186 (1)	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S13_06	S041037 (2)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S13_07	S041119 (1)	○	○	○	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●

**TIMSS 2011 TCMA National Item Selection**
**Fourth-Grade Science**

		Country																																					
		Item (pts)																																					
Item (pts)	S041105	● Item covered in national curriculum																			○ Item not covered in national curriculum																		
		Armenia	Australia	Austria	Azerbaijan	Belgium (Flemish)	Chile	Chinese Taipei	Croatia	Czech Republic	Denmark	England	Finland	Germany	Hong Kong SAR	Hungary	Iran, Islamic Rep. of	Ireland	Italy	Japan	Kazakhstan	Korea, Rep. of	Kuwait	Lithuania	Malta	Morocco	Netherlands	New Zealand	Northern Ireland	Norway	Oman								
S13_08	S041105 (1)	●	●	○	●	●	○	○	●	●	●	○	○	○	●	●	●	○	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
S13_09	S041193 (1)	●	○	○	●	●	○	○	○	○	○	○	○	○	●	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
S13_10Z	S041149Z (2)	●	●	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
S13_11	S041032 (1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
S13_12	S041068 (1)	●	●	●	●	●	●	○	○	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
S13_13	S041303 (1)	●	●	○	●	●	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
S14_01	S051054 (1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
S14_02	S051024 (1)	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
S14_03A	S051132A (1)	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
S14_03B	S051132B (1)	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
S14_04	S051040 (1)	●	●	●	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
S14_05	S051193 (1)	●	●	●	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○		
S14_06	S051063 (1)	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
S14_07	S051012 (1)	●	●	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
S14_08	S051115 (1)	●	●	●	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
S14_09	S051180 (1)	●	●	●	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
S14_10	S051106 (1)	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
S14_11	S051148 (1)	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		

		Country																		
		Item (pts)																		
		Poland	Portugal	Qatar	Romania	Russian Federation	Serbia	Singapore	Slovak Republic	Slovenia	Spain	Sweden	Thailand	Tunisia	Turkey	United Arab Emirates	United States	Yemen	Sixth Grade Countries	
S13_08	S041105	(1)	●	○	○	●	○	○	○	●	●	○	●	○	●	●	○	○	●	●
S13_09	S041193	(1)	○	●	●	●	○	●	○	●	●	●	●	○	●	●	●	○	●	●
S13_10Z	S041149Z	(2)	○	●	●	●	○	●	●	●	●	●	●	○	●	●	●	●	●	●
S13_11	S041032	(1)	●	●	○	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●
S13_12	S041068	(1)	●	●	●	○	●	○	●	●	●	●	○	●	●	●	●	●	●	●
S13_13	S041303	(1)	○	●	●	●	○	●	○	●	●	●	○	●	○	●	●	○	●	●
S14_01	S051054	(1)	○	●	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S14_02	S051024	(1)	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S14_03A	S051132A	(1)	●	●	●	●	○	●	○	●	●	●	●	●	●	●	●	●	●	●
S14_03B	S051132B	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S14_04	S051040	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S14_05	S051193	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S14_06	S051063	(1)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S14_07	S051012	(1)	○	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●
S14_08	S051115	(1)	○	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●
S14_09	S051180	(1)	○	●	●	○	●	○	●	●	●	●	●	●	●	●	●	●	●	●
S14_10	S051106	(1)	●	●	●	●	●	○	○	●	●	●	●	●	●	●	●	●	●	●
S14_11	S051148	(1)	●	●	○	●	●	○	●	●	●	●	●	●	●	●	●	●	●	●