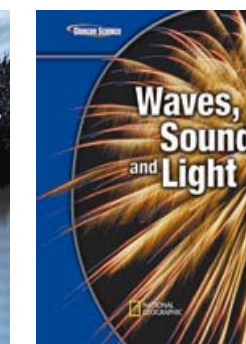
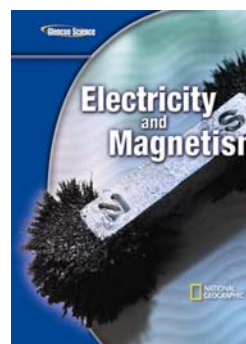
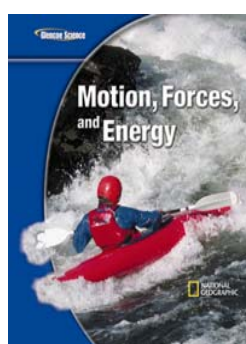
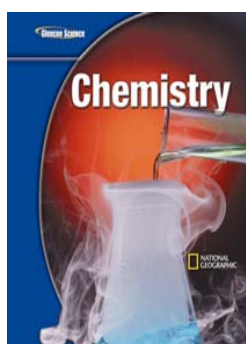
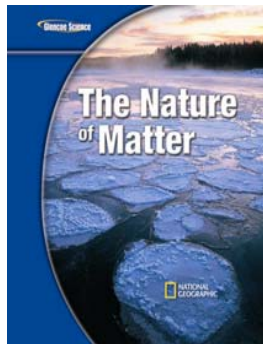
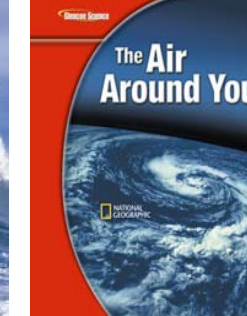
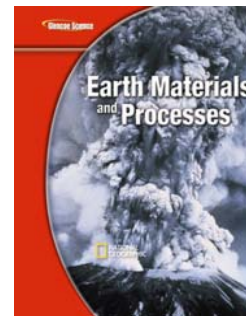


*Life's Structure and Function A
From Bacteria to Plants B
Animal Diversity C
Human Body Systems D
Ecology E*

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*Earth Materials and Processes F
The Changing Surface of Earth G
The Water Planet H
The Air Around You I
Astronomy J*

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*The Nature of Matter K
Chemistry L
Motion, Forces, and Energy M
Electricity and Magnetism N
Waves, Sound, and Light O*

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STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
Standard A: Science Connections			
By the end of grade eight , students will:			
A.8.1 Develop their understanding of the science themes by using the themes to frame questions about science-related issues and problems	<p>The following page references can be incorporated to meet this standard by discussing larger themes of organization, energy, adaptation, and systems and interactions.</p> <p>Student Edition:</p> <p>(A) 16-20 <i>The Nature of Science</i> 4-5 <i>National Geographic</i> 81</p> <p>(B) <i>Lab: Design Your Own</i> 22-23 <i>Lab: Model and Invent</i> 52-53</p> <p>(D) <i>Lab</i> 189</p> <p>(E) <i>Lab</i> 76, 111 <i>MiniLab</i> 72 <i>Time: Science and Society</i> 146</p> <p>Teacher Wraparound Edition:</p> <p>(A) DIF 4; TBI 6</p> <p>(B) TBI 6, 30</p> <p>(D) TBI 6, 34</p> <p>(E) TBI 6, 34</p>	<p>Student Edition:</p> <p>(F) <i>Lab</i> 26-27 <i>Model and Invent Lab</i> 88-89 <i>Use the Internet Lab</i> 116-117</p> <p>(G) <i>Use the Internet Lab</i> 176-177</p> <p>(H) <i>Use the Internet Lab</i> 148-149</p> <p>(I) <i>Model and Invent Lab</i> 56-57 <i>National Geographic</i> 76-77 <i>Use the Internet Lab</i> 116-117</p> <p>(J) <i>The Nature of Science</i> 2-5 <i>Science and Society</i> 32 <i>Lab</i> 60-61</p> <p>Teacher Wraparound Edition:</p> <p>(F) ACT 72; AIL 116; IL 163; SJ 51</p> <p>(G) DI 20; IL 107</p> <p>(H) SJ 132</p> <p>(I) IL 46</p> <p>(J) DI 18</p>	<p>Student Edition:</p> <p>(K) <i>Applying Science</i> 27, 49, 103</p> <p>(L) <i>Applying Science</i> 75, 112</p> <p>(M) <i>Applying Science</i> 78, 142 <i>Figure</i> 19 143 <i>Lab</i> 148-149</p> <p>(N) <i>Applying Science</i> 41, 75 <i>Lab</i> 84-85</p> <p>(O) <i>Applying Science</i> 23, 42</p> <p>Teacher Wraparound Edition:</p> <p>(K) AIL 118; DI 48, 49</p> <p>(L) AIL 54; CD 112; DI 111</p> <p>(M) AIL 148; DI 142; SJ 79, 140; VL 143</p> <p>(N) AIL 84</p> <p>(O) DI 44</p>

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
A.8.2 Describe limitations of science systems and give reasons why specific science themes are included in or excluded from those systems	<p>The following page references can be incorporated to describe limitations of science, with regards to technology, human nature, faith, and societal issues.</p> <p>Student Edition: (A) 13, 23, 156-157, 174 (D) <i>The Nature of Science</i> 4-5 (E) 139-143 <i>The Nature of Science</i> 2-3, 4 <i>Time: Science and Society</i> 146</p> <p>Teacher Wraparound Edition: (D) DI 5 (E) DI 142</p>	<p>Student Edition: (F) 73-75 (G) 18-24, 139-145 <i>The Nature of Science</i> 2-5 (I) <i>Science and Society</i> 58 (J) 10-13</p> <p>Teacher Wraparound Edition: (G) DI 156; DIS 3; QD 19 (J) SJ 10</p>	<p>Student Edition: (K) <i>National Geographic</i> 20 (L) 5 <i>You Do It</i> 5</p> <p>Teacher Wraparound Edition: (K) D 32; NG 20 (L) CC4; E 5; YDI 5</p>

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
A.8.3 Defend explanations and models by collecting and organizing evidence that supports them and critique explanations and models by collecting and organizing evidence that conflicts with them	<p>Student Edition:</p> <p>(A) 21, 23, 53, 112-114, 156-159, 169-171 <i>MiniLab</i> 113 <i>National Geographic</i> 22 <i>Section Review</i> 23 (#2), 53 (#2), 163 (#1), 171 (#4)</p> <p>(D) 181-182 <i>National Geographic</i> 183</p> <p>Teacher Wraparound Edition:</p> <p>(A) IM 157; SJ 158</p>	<p>Student Edition:</p> <p>(F) <i>Lab</i> 44, 82 <i>Model and Invent Lab</i> 88-89</p> <p>(G) <i>Model and Invent Lab</i> 26-27, 144-145 <i>Design Your Own Lab</i> 54-55, 82-83 <i>Lab</i> 75</p> <p>(I) <i>Design Your Own Lab</i> 26-27 <i>Model and Invent Lab</i> 56-57</p> <p>(J) <i>Use the Internet Lab</i> 30-31 <i>Lab</i> 60-61 <i>Model and Invent Lab</i> 94-95</p> <p>Teacher Wraparound Edition:</p> <p>(F) ACT 79; IL 47; MM 78</p> <p>(G) ACT 67</p>	<p>Student Edition:</p> <p>(K) <i>Section 1 Review</i> 17 #4 <i>Time Science and History</i> 32</p> <p>(L) 40 <i>Figure 4</i> 40</p> <p>(M) <i>Integrate Physics</i> 90 <i>National Geographic</i> 51 <i>Time Science and Society</i> 58</p> <p>(N) <i>Integrate History</i> 53</p> <p>(O) <i>Brainstorm</i> 88 <i>Integrate Astronomy</i> 42 <i>Integrate Physics</i> 103 <i>National Geographic</i> 78</p> <p>Teacher Wraparound Edition:</p> <p>(K) CC 47; D 32; HS 32; R 17</p> <p>(L) VL 40</p> <p>(M) A 51; CB 58; CC 17; DI 76; IP 90; NG 51</p> <p>(N) CD 53; D 41; IH 53; SJ 4</p> <p>(O) B 88; IP 103; NG 78</p>

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
A.8.4 Collect evidence to show that models developed as explanations for events were (and are) based on the evidence available to scientists at the time	<p>Student Edition: (A) 21, 23, 24-25, 53, 112-114, 129, 156-159 <i>National Geographic</i> 22 (D) 181-182 <i>Integrate History</i> 182 <i>Time: Science and History</i> 84, 110</p> <p>Teacher Wraparound Edition: (A) CC 115; DIF 183; RE 84; VL 22</p>	<p>Student Edition: (F) 98-101, 102-104, 106-115 <i>Science Online</i> 99 (J) 40-41, 53-54, 87 <i>The Nature of Science</i> 2-5</p> <p>Teacher Wraparound Edition: (F) A 101; DIS 99 (J) CFU 74; TFYI 71; TPK 70</p>	<p>Student Edition: (K) 98-99 <i>Time Science and History</i> 32 (M) 2-3 <i>Figure 10</i> 133 <i>Integrate History</i> 43 (N) 2-4 <i>Integrate Chemistry</i> 70 (O) 2-3 <i>Applying Science</i> 42 <i>National Geographic</i> 78</p> <p>Teacher Wraparound Edition: (K) A 14; D 32; HS 32; R 17 (M) DI 76; IH 43; VL 133 (N) CD 53; D 3; SCB 36E; SJ 4 (O) CB 3; D 3; NG 78</p>

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
A.8.5 Show how models and explanations, based on systems, were changed as new evidence accumulated (the effects of constancy, evolution, change, and measurement should all be part of these explanations)	<p>Student Edition: (A) 21, 23, 24-25, 53, 112-114, 129, 156-159 <i>National Geographic</i> 22 (D) 181-182 <i>Integrate History</i> 182 <i>Time: Science and History</i> 84, 110</p> <p>Teacher Wraparound Edition: (A) CC 115; DIF 183; RE 84; VL 22</p>	<p>Student Edition: (F) 98-101, 102-104, 106-115 <i>MiniLAB</i> 100 <i>Lab</i> 105 (G) 156-161 (J) 53-54, 70-74, 122-125</p> <p>Teacher Wraparound Edition: (F) CFU 101, 104; DI 100, 103; SJ 107; TFYI 101 (J) ACT 124; SJ 72; UAA 125</p>	<p>Student Edition: (K) <i>Time Science and History</i> 32 (M) 2-3 (N) 3-4, 73 (O) 42 <i>Integrate Astronomy</i> 42 <i>National Geographic</i> 78 <i>Time Science and Society</i> 88</p> <p>Teacher Wraparound Edition: (K) A 14; HS 32; R 17 (L) DI 11 (N) CC 4; D 3; SCB 64F (O) HS 88; NG 78</p>

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
A.8.6 Use models and explanations to predict actions and events in the natural world	<p>Student Edition:</p> <p>(A) <i>Applying Math</i> 133 <i>Applying Science</i> 109 <i>Lab</i> 135 <i>MiniLab</i> 113</p> <p>(E) 16-17, 19, 48 <i>Lab</i> 111 <i>Lab: Design Your Own</i> 26-27 <i>National Geographic</i> 18, 66</p> <p>Teacher Wraparound Edition:</p> <p>(A) DIF 132; IL 162</p>	<p>Student Edition:</p> <p>(F) <i>Launch Lab</i> 65, 125</p> <p>(G) <i>Model and Invent Lab</i> 26-27, 144-145 <i>Design Your Own Lab</i> 54-55 <i>Lab</i> 114-115, 169 <i>Launch Lab</i> 153</p> <p>(I) 19-20 <i>Design Your Own Lab</i> 26-27 <i>Lab</i> 85</p> <p>(J) 70-71 <i>Launch Lab</i> 39, 69</p> <p>Teacher Wraparound Edition:</p> <p>(F) IL 134; QD 53</p> <p>(I) MM 14</p>	<p>Student Edition:</p> <p>(M) 85 <i>Integrate History</i> 43 <i>Integrate Life Science</i> 87 <i>Lab</i> 88-89 <i>Time Science and Society</i> 176</p> <p>(N) 2, 41 <i>Figure 3</i> 39 <i>Integrate Life Science</i> 42</p> <p>(O) 9-11, 21 <i>Applying Science</i> 42 <i>Design Your Own Lab</i> 26-27 <i>Integrate Earth Science</i> 14 <i>Lab</i> 18</p> <p>Teacher Wraparound Edition:</p> <p>(K) CC 47</p> <p>(M) AIL 88; As 89; CB 176; D 176; IH 43</p> <p>(N) VL 2, 39, 42</p> <p>(O) AIL 26; IL 14; QD 10; TFYI 10; VL 21</p>

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
A.8.7 Design real or thought investigations to test the usefulness and limitations of a model	<p>The following page references can be incorporated to meet this standard.</p> <p>Student Edition:</p> <p>(A) <i>Applying Math</i> 133 <i>Applying Science</i> 109 <i>Lab</i> 135 <i>MiniLab</i> 113</p> <p>(E) <i>Lab</i> 111 <i>Lab: Design Your Own</i> 26-27</p> <p>Teacher Wraparound Edition:</p> <p>(A) DIF 132; IL 162</p>	<p>Student Edition:</p> <p>(F) <i>Lab</i> 13 <i>Model and Invent Lab</i> 88-89 <i>MiniLAB</i> 111 <i>Design Your Own Lab</i> 176-177 <i>Extra Try at Home Lab</i> 198</p> <p>(G) <i>Model and Invent Lab</i> 26-27, 144-145 <i>Design Your Own Lab</i> 54-56, 82-83 <i>Lab</i> 114-115, 138</p> <p>(H) <i>MiniLAB</i> 39, 80 <i>Lab</i> 75, 117 <i>Design Your Own Lab</i> 118-119</p> <p>(I) <i>MiniLAB</i> 19, 75 <i>Design Your Own Lab</i> 26-27 <i>Model and Invent Lab</i> 56-57 <i>Lab</i> 85</p>	<p>Student Edition:</p> <p>(K) <i>Chapter 2 Review</i> 61 #29 <i>Design Your Own Lab</i> 62-63</p> <p>(L) <i>Lab</i> 26-27</p> <p>(M) <i>Design Your Own Lab</i> 26-27</p> <p>(O) <i>Design Your Own Lab</i> 26-27 <i>Lab</i> 46</p> <p>Teacher Wraparound Edition:</p> <p>(K) AIL 62 (N) AIL 28 (O) AIL 26; As 46</p>

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
Continued from cell on previous page A.8.7 Design real or thought investigations to test the usefulness and limitations of a model	Continued from cell on previous page	Continued from cell on previous page (J) <i>MiniLAB</i> 21, 84 <i>Lab</i> 55, 75, 60-61 <i>Model and Invent Lab</i> 94-95 Teacher Wraparound Edition: (F) IL 79 (G) LD 19 (H) IL 83	Continued from cell on previous page
A.8.8. Use the themes of evolution, equilibrium, and energy to predict future events or changes in the natural world	The following page references can be incorporated to meet this standard. Student Edition: (A) <i>Lab</i> 135 <i>MiniLab</i> 113 (E) <i>Lab</i> 111 <i>Lab: Design Your Own</i> 26-27 Teacher Wraparound Edition: (E) TFYI 104	Student Edition: (F) 36-39 <i>Use the Internet Lab</i> 116-117 (G) 36-41, 156-161 <i>Design Your Own Lab</i> 54-55 <i>Lab</i> 169 (H) <i>National Geographic</i> 48 (I) 44-51, 74-84 (J) 116-119 Teacher Wraparound Edition: (F) CFU 39 (G) IL 166; R 161 (I) A 51 (J) DI 122	Student Edition: (M) <i>Thermal Pollution</i> 167 <i>Time Science and Society</i> 176 (O) <i>Chapter 1 Standardized Test Practice</i> 33 #12 <i>Integrate Earth Science</i> 14 Teacher Wraparound Edition: (M) D 176; SJ 140 (O) A 15; IL 14

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
Standard B: Nature of Science			
B.8.1 Describe how scientific knowledge and concepts have changed over time in the earth and space, life and environmental, and physical sciences	<p>Student Edition:</p> <p>(A) 21, 23, 24-25, 49, 53, 129, 156-159 <i>National Geographic</i> 22</p> <p>(D) 181-182 <i>Time: Science and History</i> 84, 110</p> <p>Teacher Wraparound Edition:</p> <p>(A) CDIV 12; SJ 50; TFYI 26; VL 22</p> <p>(D) DIF 183</p>	<p>Student Edition:</p> <p>(F) 98-101, 102-104, 106-115 <i>Get Ready to Read</i> 98A-98B</p> <p>(G) 156-161</p> <p>(J) 53-54, 70-74, 114-116, 122-125</p> <p>Teacher Wraparound Edition:</p> <p>(F) DI 103; TBI 96</p> <p>(J) DI 80</p>	<p>Student Edition:</p> <p>(K) 9-17 <i>Integrate Health</i> 116 <i>Integrate Physics</i> 16 <i>National Geographic</i> 20 <i>Time Science and History</i> 32</p> <p>(L) 96 <i>Integrate Physics</i> 28</p> <p>(M) 2-3, 49, 77-78, 83, 141-145, 167, 172-173 <i>Figure 10</i> 133 <i>Integrate History</i> 43 <i>Science Online</i> 170 <i>Time Science and Society</i> 58, 118</p> <p>(N) 2-4, 53-55, 78-79 <i>Figure 7</i> 42 <i>Integrate Chemistry</i> 70 <i>Integrate History</i> 53 <i>National Geographic</i> 10 <i>Time Science and Society</i> 30</p> <p>(O) 2-3, 25, 45, 72-73, 114-117 <i>Integrate Astronomy</i> 42 <i>Integrate Health</i> 16</p>

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
Continued from cell on previous page B.8.1 Describe how scientific knowledge and concepts have changed over time in the earth and space, life and environmental, and physical sciences	Continued from cell on previous page	Continued from cell on previous page	Continued from cell on previous page Teacher Wraparound Edition: (K) HS 32; MM 9; NG 20; R 32; SJ 14; TFYI 20 (L) IP 28 (M) CB 58, 118; DI 142; IH 43; VL 133 (N) D 3, 30; SCB 64E-64F (O) IH 16

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
B.8.2 Identify and describe major changes that have occurred over in conceptual models and explanations in the earth and space, life and environmental, and physical sciences and identify the people, cultures, and conditions that led to these developments	<p>Student Edition:</p> <p>(A) 21, 23, 24-25, 49, 53, 129, 156-159 <i>National Geographic</i> 22</p> <p>(D) 181-182 <i>Time: Science and History</i> 84, 110</p> <p>Teacher Wraparound Edition:</p> <p>(A) CDIV 12; SJ 50; TFYI 26; VL 22</p> <p>(D) DIF 183</p>	<p>Student Edition:</p> <p>(F) 98-101, 102-104, 106-115 <i>Science Online</i> 99 <i>Get Ready to Read</i> 98A-98B</p> <p>(G) 156-161</p> <p>(J) 53-54, 70-74, 114-116, 122-125</p> <p>Teacher Wraparound Edition:</p> <p>(F) A 101; DIS 99; SJ 107; TBI 96; TFYI 103</p> <p>(J) ACT 124; CD 84; DI 123; TFYI 71</p>	<p>Student Edition:</p> <p>(K) 9-17 <i>Integrate Physics</i> 16 <i>National Geographic</i> 20 <i>Time Science and History</i> 32</p> <p>(L) 2-3, 12, 40</p> <p>(M) 2-3, 38-39, 77-78, 83 <i>Integrate History</i> 43, 100 <i>Integrate Physics</i> 90 <i>Time Science and Society</i> 118</p> <p>(N) 2-4, 21 <i>Integrate History</i> 18, 53</p> <p>(O) 2-3 <i>Integrate History</i> 82, 115 <i>Time Science and History</i> 88</p> <p>Teacher Wraparound Edition:</p> <p>(K) CD 80; D 32; HS 32; MM 9; NG 20; R 32; SJ 14; TFYI 20</p> <p>(L) CB 3; IP 28</p>

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
Continued from cell on previous page B.8.2 Identify and describe major changes that have occurred over in conceptual models and explanations in the earth and space, life and environmental, and physical sciences and identify the people, cultures, and conditions that led to these developments	Continued from cell on previous page	Continued from cell on previous page	Continued from cell on previous page (M) CB 118; CC 43, 136; CD 172; DI 76; IH 43, 100; IP 90; SCB 96F; SJ 170; TFYI 38 (N) CC 4; CD 53; FF 48; SCB 36E, 64F; SJ 4 (O) CB 3; CC 3, 52; HS 88; IH 82, 115; SCB 64E; SJ 115

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
B.8.3 Explain how the general rules of science apply to the development and use of evidence in science investigations, model-making, and applications	<p>Student Edition:</p> <p>(A) 9-12 <i>Science Skill Handbook</i> 186-194 <i>Section Review 15 (#1)</i> <i>The Nature of Science</i> 2-5</p> <p>(B) <i>The Nature of Science</i> 2-5</p> <p>(C) <i>The Nature of Science</i> 2-5</p> <p>(D) <i>The Nature of Science</i> 2-5 <i>Time: Science and History</i> 84</p> <p>Teacher Wraparound Edition:</p> <p>(A) TYFI 12 (B) YDI 5 (C) YDI 5 (D) HS 84</p>	<p>Student Edition:</p> <p>(F) <i>The Nature of Science</i> 2-5 <i>Science Skill Handbook</i> 186-197</p> <p>(G) <i>The Nature of Science</i> 2-5 <i>Science Skill Handbook</i> 186-197</p> <p>(H) <i>The Nature of Science</i> 2-5 <i>Science Skill Handbook</i> 156-169</p> <p>(I) <i>The Nature of Science</i> 2-5 <i>Science Skill Handbook</i> 126-137</p> <p>(J) <i>The Nature of Science</i> 2-5 <i>You Do It</i> 5 <i>Science Skill Handbook</i> 136-147</p> <p>Teacher Wraparound Edition:</p> <p>(J) DIS 4</p>	<p>Student Edition:</p> <p>(K) 4-5 <i>Science Skills Handbook</i> 128-131</p> <p>(L) 4-5</p> <p>(M) 4-5</p> <p>(N) 4-5</p> <p>(O) 4-5</p> <p>Teacher Wraparound Edition:</p> <p>(K) CC 4 (M) E 5; SJ 4 (N) SJ 4 (O) VL 5</p>

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
B.8.4 Describe types of reasoning and evidence used outside of science to draw conclusions about the natural world	<p>The following page references can be incorporated to meet this standard.</p> <p>Student Edition: (A) 8-9 (E) <i>The Nature of Science</i> 2-5</p> <p>Teacher Wraparound Edition: (A) SJ 9; TTPK 8</p>	<p>Student Edition: (F) <i>Science and Society</i> 58 <i>Science and Language Arts</i> 118 (G) <i>The Nature of Science</i> 4-5 <i>You Do It</i> 5 <i>Science and History</i> 28 <i>Science and Language Arts</i> 56 (H) <i>Science and Language Arts</i> 120 (I) <i>Lab</i> 16 <i>Science and Language Arts</i> 28 (J) <i>Science and History</i> 62</p> <p>Teacher Wraparound Edition: (F) DIS 3, 157</p>	<p>Student Edition: (K) <i>Science and Language Arts</i> 120 (L) <i>Science and Language Arts</i> 28 (M) <i>Science and Language Arts</i> 90 (N) <i>Science and Language Arts</i> 58</p> <p>Teacher Wraparound Edition: (L) A 118; E 5 (N) CD 49; UL 58</p>

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
B.8.5 Explain ways in which science knowledge is shared, checked, and extended, and show how these processes change over time	<p>Student Edition: (A) 11-12, 158 <i>Science Skill Handbook</i> 194 (D) <i>The Nature of Science</i> 3</p> <p>Teacher Wraparound Edition: (A) AC 13; SJ 158; TFYI 23</p>	<p>Student Edition: (F) 98-101, 102-104, 106-115 <i>Science Online</i> 99 <i>Science Skill Handbook</i> 194 (G) <i>Accidents in Science</i> 146 <i>Science Skill Handbook</i> 194 (H) <i>The Nature of Science</i> 2-5 <i>Science Skill Handbook</i> 166 (I) <i>Science Skill Handbook</i> 134 (J) 70-74 <i>Science Skill Handbook</i> 144</p> <p>Teacher Wraparound Edition: (F) A 101; DIS 99; TBI 96; TFYI 103 (J) ACT 124; SJ 72</p>	<p>Student Edition: (K) <i>Science Skills Handbook</i> 136 (L) <i>Science Skills Handbook</i> 134 (M) 4-5 <i>Science Skills Handbook</i> 192 (N) 5 <i>Science Skills Handbook</i> 102 (O) <i>Science Skills Handbook</i> 136</p> <p>Teacher Wraparound Edition: (K) R 17; TFYI 13 (M) E 5 (N) CC 4; SJ 4; UA 5</p>

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
B.8.6 Explain the ways in which scientific knowledge is useful and also limited when applied to social issues	<p>Student Edition:</p> <p>(A) 13, 144 <i>The Nature of Science</i> 4, 5</p> <p>(B) <i>Lab: Design Your Own</i> 22-23</p> <p>(C) <i>Oops! Accidents in Science</i> 152</p> <p>(D) <i>Oops! Accidents in Science</i> 28 <i>The Nature of Science</i> 4-5 <i>Time: Science and Society</i> 56</p> <p>(E) <i>Time: Science and Society</i> 86, 146</p> <p>Teacher Wraparound Edition:</p> <p>(A) DI 5; YDI 5</p> <p>(C) AC 152; CB 152</p> <p>(D) CB 28</p>	<p>Student Edition:</p> <p>(F) 139-145 <i>The Nature of Science</i> 2-5 <i>Science and Society</i> 58</p> <p>(G) <i>The Nature of Science</i> 2-5 <i>Science and Society</i> 115</p> <p>(H) 54-57, 143-147 <i>Science and Society</i> 28</p> <p>(I) 111-115 <i>The Nature of Science</i> 2-5 <i>Science and Society</i> 58 <i>Accidents in Science</i> 118</p> <p>(J) 29 <i>Science and Society</i> 32</p> <p>Teacher Wraparound Edition:</p> <p>(I) R 84</p>	<p>Student Edition:</p> <p>(L) 5</p> <p>Teacher Wraparound Edition:</p> <p>(L) CC 4; E 5</p>

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
Standard C: Science Inquiry			
C.8.1 Identify* questions they can investigate* using resources and equipment they have available	<p>Student Edition:</p> <p>(A) 9-10 <i>Lab: Design Your Own</i> 30-31 <i>Science Skill Handbook</i> 189</p> <p>(B) <i>Lab: Design Your Own</i> 22-23</p> <p>(C) <i>Lab: Design Your Own</i> 96-97</p> <p>(D) <i>Lab: Design Your Own</i> 196-197</p> <p>(E) <i>Lab: Design Your Own</i> 26-27 <i>Lab: Model and Invent</i> 116-117</p> <p>Teacher Wraparound Edition:</p> <p>(A) AIL 30</p> <p>(B) AIL 22</p> <p>(C) AIL 96</p> <p>(D) AIL 196</p>	<p>Student Edition:</p> <p>(F) <i>Lab</i> 26-27, 82 <i>Model and Invent Lab</i> 88-89 <i>Use the Internet Lab</i> 116-117</p> <p>(G) <i>Design Your Own Lab</i> 54-55, 82-83 <i>MiniLAB</i> 164 <i>Use the Internet Lab</i> 176-177</p> <p>(H) <i>Lab</i> 58-59, 90-91 <i>Design Your Own Lab</i> 118-119 <i>Use the Internet Lab</i> 148-149</p> <p>(I) <i>Design Your Own Lab</i> 26-27 <i>Lab</i> 85 <i>Use the Internet Lab</i> 116-117</p> <p>(J) <i>Lab</i> 60-61 <i>MiniLAB</i> 79</p> <p>Teacher Wraparound Edition:</p> <p>(G) IL 47</p>	<p>Student Edition:</p> <p>(K) <i>Design Your Own Lab</i> 62-63, 88-89 <i>Lab</i> 24, 30-31, 53, 77, 117, 118-119</p> <p>(L) <i>Design Your Own Lab</i> 54-55, 86-87 <i>Lab</i> 25, 26-27, 53, 77, 107, 116-117</p> <p>(M) <i>Design Your Own Lab</i> 26-27, 56-57, 116-117, 174-175 <i>Lab</i> 55, 81, 88-89, 103, 138, 168 <i>You Do It</i> 5</p> <p>(N) <i>Lab</i> 27, 28-29, 44, 56-57, 72</p> <p>(O) <i>Design Your Own Lab</i> 26-27, 56-57, 86-87 <i>Lab</i> 46, 80, 107, 118-119</p> <p>Teacher Wraparound Edition:</p> <p>(K) AIL 30, 62, 89, 118</p> <p>(L) AIL 54, 87</p> <p>(M) AIL 88, 116; As 55; YDI 5</p> <p>(N) AIL 56</p>

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
C.8.2 Identify* data and locate sources of information including their own records to answer the questions being investigated	<p>Student Edition:</p> <p>(A) 9-10 <i>Lab: Design Your Own</i> 30-31 <i>Science Skill Handbook</i> 190-193</p> <p>(B) <i>Lab: Design Your Own</i> 22-23</p> <p>(C) <i>Lab: Design Your Own</i> 96-97</p> <p>(D) <i>Lab: Design Your Own</i> 196-197</p> <p>(E) <i>Lab: Design Your Own</i> 26-27 <i>Lab: Model and Invent</i> 116-117</p> <p>Teacher Wraparound Edition:</p> <p>(A) AIL 30 (B) AIL 22 (C) AIL 96 (D) AIL 196</p>	<p>Student Edition:</p> <p>(F) <i>Lab</i> 26-27, 82 <i>Model and Invent Lab</i> 88-89 <i>Use the Internet Lab</i> 116-117</p> <p>(G) <i>Science Online</i> 51, 171 <i>Design Your Own Lab</i> 54-55, 82-83</p> <p>(H) <i>Lab</i> 58-59, 90-91 <i>Use the Internet Lab</i> 148-149</p> <p>(I) <i>Design Your Own Lab</i> 26-27 <i>Lab</i> 85 <i>Use the Internet Lab</i> 116-117</p> <p>(J) <i>Lab</i> 60-61</p> <p>Teacher Wraparound Edition:</p> <p>(F) AIL 350 (G) AIL 83</p>	<p>Student Edition:</p> <p>(K) <i>Design Your Own Lab</i> 63, 89 <i>Lab</i> 24, 31, 53, 77, 119</p> <p>(L) <i>Design Your Own Lab</i> 55, 87 <i>Lab</i> 25, 27, 53</p> <p>(M) <i>Design Your Own Lab</i> 57, 117, 174-175 <i>Lab</i> 55, 81, 88-89, 103, 168 <i>You Do It</i> 5</p> <p>(N) <i>Lab</i> 29</p> <p>(O) <i>Design Your Own Lab</i> 57, 87 <i>Lab</i> 46, 107, 119</p> <p>Teacher Wraparound Edition:</p> <p>(K) As 119 (L) CYD 53, 55</p>

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
C.8.3 Design and safely conduct investigations* that provide reliable quantitative or qualitative data, as appropriate, to answer their questions	<p>Student Edition:</p> <p>(A) 15 <i>Lab: Design Your Own</i> 30-31 <i>Science Skill Handbook</i> 189-190, 196-197</p> <p>(B) <i>Lab: Design Your Own</i> 22-23</p> <p>(C) <i>Lab: Design Your Own</i> 96-97</p> <p>(D) <i>Lab: Design Your Own</i> 196-197</p> <p>(E) <i>Lab: Design Your Own</i> 26-27 <i>Lab: Model and Invent</i> 116-117</p> <p>Teacher Wraparound Edition:</p> <p>(A) AIL 30 (B) AIL 22 (C) AIL 96 (D) AIL 196</p>	<p>Student Edition:</p> <p>(F) <i>Lab</i> 26-27, 82 <i>Use the Internet Lab</i> 116-117</p> <p>(G) <i>Design Your Own Lab</i> 54-55 <i>Lab</i> 75, 82-83</p> <p>(H) <i>Lab</i> 58-59, 90-91 <i>Design Your Own Lab</i> 118-119</p> <p>(I) <i>Design Your Own Lab</i> 26-27 <i>Lab</i> 85</p> <p>(J) <i>Use the Internet Lab</i> 30-31 <i>Lab</i> 60-61 <i>Model and Invent Lab</i> 94-95</p> <p>Teacher Wraparound Edition:</p> <p>(G) ACT 95; AIL 83; IL 107</p>	<p>Student Edition:</p> <p>(K) <i>Design Your Own Lab</i> 62-63, 88-89 <i>Lab</i> 77, 119</p> <p>(L) <i>Design Your Own Lab</i> 54-55, 86-87 <i>Lab</i> 27</p> <p>(M) <i>Design Your Own Lab</i> 26-27, 56-57, 116-117, 174-175 <i>Lab</i> 88-89 <i>You Do It</i> 5</p> <p>(N) <i>Design Your Own Lab</i> 26-27</p> <p>(O) <i>Design Your Own Lab</i> 56-57, 86-87</p> <p>Teacher Wraparound Edition:</p> <p>(K) AIL 30, 89 (L) AIL 54; As 77 (M) AIL 56, 116 (N) AIL 28; As 27 (O) AIL 56</p>

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
C.8.4 Use inferences* to help decide possible results of their investigations, use observations to check their inferences	<p>Student Edition:</p> <p>(A) 11 <i>Lab: Design Your Own</i> 30-31 <i>Science Skill Handbook</i> 193-194</p> <p>(B) <i>Lab: Design Your Own</i> 22-23</p> <p>(C) <i>Lab: Design Your Own</i> 96-97</p> <p>(D) <i>Lab: Design Your Own</i> 196-197</p> <p>(E) <i>Lab: Design Your Own</i> 26-27 <i>Lab: Model and Invent</i> 116-117</p> <p>Teacher Wraparound Edition:</p> <p>(A) AIL 30; LD 10</p> <p>(B) AIL 22</p> <p>(C) AIL 96</p> <p>(D) AIL 196</p>	<p>Student Edition:</p> <p>(F) <i>Lab</i> 26-27, 44, 82</p> <p>(G) <i>Design Your Own Lab</i> 54-55, 82-83 <i>Lab</i> 114-115 <i>Use the Internet Lab</i> 176-177</p> <p>(H) <i>Lab</i> 58-59, 90-91</p> <p>(I) <i>MiniLAB</i> 13 <i>Design Your Own Lab</i> 26-27 <i>Lab</i> 85 <i>Use the Internet Lab</i> 116-117</p> <p>(J) <i>Lab</i> 55 <i>Design Your Own Lab</i> 126-127</p> <p>Teacher Wraparound Edition:</p> <p>(F) AIL 116</p> <p>(I) IL 12</p>	<p>Student Edition:</p> <p>(K) <i>Design Your Own Lab</i> 89 <i>Lab</i> 24, 31</p> <p>(L) <i>Lab</i> 77, 117</p> <p>(M) <i>Design Your Own Lab</i> 117 <i>Lab</i> 55, 89, 103, 168</p> <p>(N) <i>Lab</i> 27, 28-29, 44, 72</p> <p>(O) <i>Design Your Own Lab</i> 27, 87 <i>Lab</i> 80</p> <p>Teacher Wraparound Edition:</p> <p>(L) As 117</p> <p>(N) As 89</p>

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
C.8.5 Use accepted scientific knowledge, models*, and theories* to explain* their results and to raise further questions about their investigations*	Student Edition:	Student Edition:	Student Edition:
	(A) 11-12 <i>Lab: Design Your Own</i> 30-31 <i>Science Skill Handbook</i> 194	(F) <i>Lab</i> 82, 88-89, 146-147 <i>Model and Invent Lab</i> 88-89	(K) <i>Design Your Own Lab</i> 63 <i>Lab</i> 24, 31, 53, 119
	(B) <i>Lab: Design Your Own</i> 22-23	(G) <i>Model and Invent Lab</i> 26-27 <i>Design Your Own Lab</i> 54-55, 82-83	(L) <i>Design Your Own Lab</i> 55, 87 <i>Lab</i> 25, 27, 53
	(C) <i>Lab: Design Your Own</i> 96-97	(H) <i>Lab</i> 58-59, 90-91 <i>Design Your Own Lab</i> 118-119	(M) <i>Design Your Own Lab</i> 117, 175 <i>Lab</i> 55, 81, 138
	(D) <i>Lab: Design Your Own</i> 196-197	(I) <i>Design Your Own Lab</i> 26-27 <i>Lab</i> 85	(N) <i>Lab</i> 29, 72
	(E) <i>Lab: Design Your Own</i> 26-27 <i>Lab: Model and Invent</i> 116-117	(J) <i>Lab</i> 60-61	(O) <i>Lab</i> 46, 119
	Teacher Wraparound Edition:	Teacher Wraparound Edition:	Teacher Wraparound Edition:
	(A) AIL 30	(H) AIL 118	(K) As 31
	(B) AIL 22	(J) IL 123	(N) As 29, 72
	(C) AIL 96		
(D) AIL 196			

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
C.8.6 State what they have learned from investigations*, relating their inferences* to scientific knowledge and to data they have collected	<p>Student Edition:</p> <p>(A) 11-12 <i>Lab: Design Your Own</i> 30-31 <i>Science Skill Handbook</i> 194</p> <p>(B) <i>Lab: Design Your Own</i> 22-23</p> <p>(C) <i>Lab: Design Your Own</i> 96-97</p> <p>(D) <i>Lab: Design Your Own</i> 196-197</p> <p>(E) <i>Lab: Design Your Own</i> 26-27 <i>Lab: Model and Invent</i> 116-117</p> <p>Teacher Wraparound Edition:</p> <p>(A) AIL 30</p> <p>(B) AIL 22</p> <p>(C) AIL 96</p> <p>(D) AIL 196</p>	<p>Student Edition:</p> <p>(F) <i>Lab</i> 26-27, 82, 146-147 <i>Communicating Your Data</i> 44 <i>Use the Internet Lab</i> 116-117</p> <p>(G) <i>Design Your Own Lab</i> 54-55, 82-83 <i>Lab</i> 75 <i>Use the Internet Lab</i> 176-177</p> <p>(H) <i>Design Your Own Lab</i> 118-119</p> <p>(I) <i>Design Your Own Lab</i> 26-27 <i>Model and Invent Lab</i> 56-57 <i>Lab</i> 85, 86-87</p> <p>(J) <i>Lab</i> 60-61</p> <p>Teacher Wraparound Edition:</p> <p>(F) IL 163</p> <p>(H) A 149</p> <p>(I) A 16, 117</p>	<p>Student Edition:</p> <p>(K) <i>Design Your Own Lab</i> 63, 89 <i>Lab</i> 31, 77, 117, 119</p> <p>(L) <i>Design Your Own Lab</i> 87 <i>Lab</i> 77, 117</p> <p>(M) <i>Lab</i> 55, 81</p> <p>(N) <i>Lab</i> 29, 72</p> <p>(O) <i>Design Your Own Lab</i> 27, 87 <i>Lab</i> 80, 107</p> <p>Teacher Wraparound Edition:</p> <p>(K) AIL 62; As 119</p> <p>(M) As 89, 103</p>

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
C.8.7 Explain* their data and conclusions in ways that allow an audience to understand the questions they selected for investigation* and the answers they have developed	<p>Student Edition:</p> <p>(A) 11-12 <i>Lab: Design Your Own</i> 30-31 <i>Science Skill Handbook</i> 194</p> <p>(B) <i>Lab: Design Your Own</i> 22-23</p> <p>(C) <i>Lab: Design Your Own</i> 96-97</p> <p>(D) <i>Lab: Design Your Own</i> 196-197</p> <p>(E) <i>Lab: Design Your Own</i> 26-27 <i>Lab: Model and Invent</i> 116-117</p> <p>Teacher Wraparound Edition:</p> <p>(A) AIL 30</p> <p>(B) AIL 22</p> <p>(C) AIL 96</p> <p>(D) AIL 196</p>	<p>Student Edition:</p> <p>(F) <i>Communicating Your Data</i> 117, 177</p> <p>(G) <i>Lab 75</i> <i>Design Your Own Lab</i> 82-83</p> <p>(H) <i>Design Your Own Lab</i> 118-119</p> <p>(I) <i>Communicating Your Data</i> 27, 85 <i>Lab 86-87</i></p> <p>(J) <i>Lab 60-61</i> <i>Communicating Your Data</i> 127</p> <p>Teacher Wraparound Edition:</p> <p>(H) IL 101</p> <p>(I) A 117</p>	<p>Student Edition:</p> <p>(K) <i>Communicating Your Data</i> 31, 53, 63, 77, 89</p> <p>(L) <i>Communicating Your Data</i> 25, 27, 55, 87</p> <p>(M) <i>Communicating Your Data</i> 27, 81, 117, 168, 175 <i>Lab 55</i></p> <p>(N) <i>Communicating Your Data</i> 29, 72</p> <p>(O) <i>Communicating Your Data</i> 27, 46, 57, 87, 107, 119</p> <p>Teacher Wraparound Edition:</p> <p>(K) As 119; CYD 31, 53</p> <p>(L) As 87; CYD 27, 53, 55, 77</p> <p>(M) As 27; CYD 27, 81, 117</p> <p>(N) CYD 27</p> <p>(O) CYD 80</p>

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
C.8.8 Use computer software and other technologies to organize, process, and present their data	<p>The following page references can be incorporated to meet this standard.</p> <p>Student Edition:</p> <p>(A) 11-12 <i>Lab: Design Your Own</i> 30-31 <i>Science Skill Handbook</i> 194 <i>Technology Skill Handbook</i> 201-204</p> <p>(B) <i>Lab: Design Your Own</i> 22-23</p> <p>(C) <i>Lab: Design Your Own</i> 96-97</p> <p>(D) <i>Lab: Design Your Own</i> 196-197</p> <p>(E) <i>Lab: Design Your Own</i> 26-27 <i>Lab: Model and Invent</i> 116-117</p> <p>Teacher Wraparound Edition:</p> <p>(A) AIL 30 (B) AIL 22 (C) AIL 96 (D) AIL 196</p>	<p>Student Edition:</p> <p>(F) <i>Lab</i> 82 <i>Use the Internet Lab</i> 116-117</p> <p>(G) <i>Use the Internet Lab</i> 176-177</p> <p>(H) <i>Use the Internet Lab</i> 148-149</p> <p>(I) <i>Use the Internet Lab</i> 116-117</p> <p>(J) <i>Use the Internet Lab</i> 30-31</p> <p>Teacher Wraparound Edition:</p> <p>(F) A 44; CYD 147, 177 (G) A 83 (H) IL 101 (I) CYD 27, 87 (J) CYD 127</p>	<p>Student Edition:</p> <p>(K) <i>Communicating Your Data</i> 119</p> <p>(M) <i>Communicating Your Data</i> 89</p> <p>Teacher Wraparound Edition:</p> <p>(K) CYD 24, 63, 77, 89 (L) CYD 55, 117 (M) CYD 103, 138, 168, 175; DI 170 (N) CYD 27, 29, 44 (O) CYD 27, 46, 107</p>

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
C.8.9 Evaluate*, explain*, and defend the validity of questions, hypotheses, and conclusions to their investigations*	<p>The following page references can be incorporated to meet this standard.</p> <p>Student Edition:</p> <p>(A) 11-12 <i>Lab: Design Your Own Science Skill Handbook</i> 194</p> <p>(B) <i>Lab: Design Your Own</i> 22-23</p> <p>(C) <i>Lab: Design Your Own</i> 96-97</p> <p>(D) <i>Lab: Design Your Own</i> 196-197</p> <p>(E) <i>Lab: Design Your Own</i> 26-27 <i>Lab: Model and Invent</i> 116-117</p> <p>Teacher Wraparound Edition:</p> <p>(A) AIL 30</p> <p>(B) AIL 22</p> <p>(C) AIL 96</p> <p>(D) AIL 196</p>	<p>Student Edition:</p> <p>(F) <i>Design Your Own Lab</i> 176-177</p> <p>(G) <i>Communicating Your Data</i> 83 <i>Use the Internet Lab</i> 176-177</p> <p>(H) <i>Design Your Own Lab</i> 118-119</p> <p>(I) <i>Design Your Own Lab</i> 26-27 <i>Model and Invent Lab</i> 56-57 <i>Lab</i> 86-87</p> <p>(J) <i>Use the Internet Lab</i> 30-31 <i>Model and Invent Lab</i> 94-95</p> <p>Teacher Wraparound Edition:</p> <p>(H) A 117, 119</p> <p>(I) A 57; IL 46</p> <p>(J) CYD 95</p>	<p>Student Edition:</p> <p>(K) <i>Design Your Own Lab</i> 63, 89 <i>Lab</i> 77, 119</p> <p>(L) <i>Design Your Own Lab</i> 55, 175</p> <p>Teacher Wraparound Edition:</p> <p>(K) AIL 118</p> <p>(N) As 72</p>

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
C.8.10 Discuss the importance of their results and implications of their work with peers, teachers, and other adults	<p>The following page references can be incorporated to meet this standard.</p> <p>Student Edition:</p> <p>(A) 11-12 <i>Lab: Design Your Own</i> 30-31 <i>Science Skill Handbook</i> 194</p> <p>(B) <i>Lab: Design Your Own</i> 22-23</p> <p>(C) <i>Lab: Design Your Own</i> 96-97</p> <p>(D) <i>Lab: Design Your Own</i> 196-197</p> <p>(E) <i>Lab: Design Your Own</i> 26-27 <i>Lab: Model and Invent</i> 116-117</p> <p>Teacher Wraparound Edition:</p> <p>(A) AIL 30 (B) AIL 22 (C) AIL 96 (D) AIL 196</p>	<p>Student Edition:</p> <p>(F) <i>Use the Internet Lab</i> 116-117</p> <p>(G) <i>Design Your Own Lab</i> 54-55, 82-83 <i>Communicating Your Data</i> 115 <i>Use the Internet Lab</i> 176-177</p> <p>(H) <i>Use the Internet Lab</i> 148-149</p> <p>(I) <i>Lab</i> 85 <i>Use the Internet Lab</i> 116-117</p> <p>(J) <i>MiniLAB</i> 79 <i>Lab</i> 126-127</p> <p>Teacher Wraparound Edition:</p> <p>(F) DI 128</p>	<p>Student Edition:</p> <p>(K) <i>Communicating Your Data</i> 24, 63, 77, 89, 119</p> <p>(L) <i>Communicating Your Data</i> 27, 53, 55</p> <p>(M) <i>Communicating Your Data</i> 55, 57, 168, 175</p> <p>(N) <i>Communicating Your Data</i> 27, 72</p> <p>(O) <i>Communicating Your Data</i> 27, 46, 80, 119</p> <p>Teacher Wraparound Edition:</p> <p>(K) AIL 118; As 119 (M) AIL 26; CYD 57 (N) CYD 29 (O) As 57</p>

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
C.8.11 Raise further questions which still need to be answered	<p>The following page references can be incorporated to meet this standard.</p> <p>Student Edition:</p> <p>(A) 11-12 <i>Lab: Design Your Own</i> 30-31 <i>Science Skill Handbook</i> 194</p> <p>(B) <i>Lab: Design Your Own</i> 22-23</p> <p>(C) <i>Lab: Design Your Own</i> 96-97</p> <p>(D) <i>Lab: Design Your Own</i> 196-197</p> <p>(E) <i>Lab: Design Your Own</i> 26-27 <i>Lab: Model and Invent</i> 116-117</p> <p>Teacher Wraparound Edition:</p> <p>(A) AIL 30 (B) AIL 22 (C) AIL 96 (D) AIL 196</p>	<p>Student Edition:</p> <p>(F) <i>Lab</i> 105, 146-147 (G) <i>Lab</i> 114-115 (J) <i>Lab</i> 60-61, 113</p> <p>Teacher Wraparound Edition:</p> <p>(F) AIL 116; IL 10, 163 (G) AIL 83, 114 (H) AIL 118, 148 (I) AIL 116; IL 46</p>	<p>Student Edition:</p> <p>(K) <i>Design Your Own Lab</i> 63 (L) <i>Communicating Your Data</i> 117 <i>Lab</i> 27 (M) <i>Design Your Own Lab</i> 27</p> <p>Teacher Wraparound Edition:</p> <p>(K) AIL 118; As 31, 53, 63 (L) AIL 116; As 55 (N) AIL 56; As 29 (O) AIL 26, 86, 118; As 46, 80, 87, 107</p>

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
Standard D: Physical Science			
PROPERTIES AND CHANGES OF PROPERTIES IN MATTER			
D.8.1 Observe, describe, and measure physical and chemical properties of elements and other substances to identify* and group* them according to properties such as density, melting points, boiling points, conductivity, magnetic attraction, solubility, and reactions to common physical and chemical tests	Student Edition: (A) 72-73 (E) <i>MiniLab</i> 103	Student Edition: (F) 14-18, 42-43, 45-48, 49-55 <i>Applying Science</i> 16 <i>MiniLAB</i> 18 <i>Lab</i> 26-27, 44, 56-57 (H) 8-13 <i>MiniLAB</i> 11 <i>Lab</i> 15 Teacher Wraparound Edition: (F) A 18, 57; AIL 26; LD 16; QD 17; R 18 (H) QD 10	Student Edition: (K) <i>Lab</i> 77 <i>Launch Lab</i> 71 <i>Mini Lab</i> 74, 75 (L) <i>Lab</i> 86-87 Teacher Wraparound Edition: (K) As 71, 74, 77; DI 73; SJ 75; TFYI 41 (L) As 87; IL 20

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
D.8.2 Use the major ideas of atomic theory and molecular theory to describe physical and chemical interactions among substances, including solids, liquids, and gases	<p>Student Edition: (A) 71, 75, 77 <i>MiniLab 77</i> (E) 44-45</p> <p>Teacher Wraparound Edition: (A) DIF 71; LD 78 (E) QD 45; SJ 45</p>	<p>Student Edition: (F) 11 <i>Integrate Chemistry 41</i> (G) 139-143 (H) 8-13 (I) 17-19, 14-15, 102 <i>MiniLAB 106</i> (J) 115-116 <i>Integrate Chemistry 117</i></p> <p>Teacher Wraparound Edition: (H) DIS 12; TFYI 11; VL 9 (I) A 102; MM 14; UAA 18</p>	<p>Student Edition: (K) 40-44 <i>Figure 3 41</i> <i>Figure 5 43</i> <i>Figure 6 44</i> <i>National Geographic 48</i> (L) 16-21 <i>Figure 12 17</i> <i>Figure 14 18</i> <i>Figure 19 21</i> <i>Figure 22 23</i> <i>Integrate Physics 17</i> <i>Mini Lab 19</i> <i>National Geographic 22</i> <i>Science Online 21</i></p> <p>Teacher Wraparound Edition: (K) DI 41; MM 41; NG 48; TFYI 41; UA 42; VL 43 (L) As 19; D 18, 21; DI 22; IP 17; NG 22; VL 23</p>

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
D.8.3 Understand how chemical interactions and behaviors lead to new substances with different properties	<p>Student Edition:</p> <p>(A) 83-86 <i>Section Review 87 (#5)</i></p> <p>(B) 128-131 <i>Section Review 131 (#6)</i></p> <p>(E) 105</p> <p>Teacher Wraparound Edition:</p> <p>(A) UA 84; VL 87</p> <p>(B) CFU 131; DI 129; QD 129</p> <p>(E) QD 105</p>	<p>Student Edition:</p> <p>(F) 40-43, 45-48</p> <p>(G) 39-41 <i>Science Online 39</i> <i>Design Your Own Lab 54-55</i></p> <p>(H) 86</p> <p>(I) 96-99 <i>MiniLAB 106</i></p> <p>Teacher Wraparound Edition:</p> <p>(F) SCB 34E-34F</p> <p>(G) SCB 34E</p>	<p>Student Edition:</p> <p>(K) 76, 80-84 <i>Integrate Life Science 81</i> <i>Science Online 81</i></p> <p>Teacher Wraparound Edition:</p> <p>(K) CC 79; CD 80; D 81; VL 80</p> <p>(L) DI 39</p>

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
D.8.4 While conducting investigations, use the science themes to develop explanations of physical and chemical interactions and energy exchanges	<p>Student Edition:</p> <p>(A) <i>Lab</i> 82, 88-89 <i>MiniLab</i> 73, 77</p> <p>(C) <i>Lab: Design Your Own</i> 96-97 <i>MiniLab</i> 116</p> <p>(D) <i>MiniLab</i> 39</p> <p>(E) <i>Lab: Model and Invent</i> 116-117 <i>MiniLab</i> 111</p> <p>Teacher Wraparound Edition:</p> <p>(A) <i>AIL</i> 88</p>	<p>Student Edition:</p> <p>(F) 40-43, 45-46 <i>Lab</i> 44, 82 <i>MiniLAB</i> 111</p> <p>(G) 36-41, 64-65 <i>MiniLAB</i> 40 <i>Design Your Own Lab</i> 54-55</p> <p>(H) 8-9 <i>Science Online</i> 9 <i>Lab</i> 15</p> <p>(I) 17-19 <i>MiniLAB</i> 19</p> <p>(J) <i>Lab</i> 60-61</p> <p>Teacher Wraparound Edition:</p> <p>(F) <i>TFYI</i> 47; <i>UAA</i> 46</p> <p>(G) <i>QD</i> 41</p> <p>(H) <i>DI</i> 9</p>	<p>Student Edition:</p> <p>(K) 87 <i>Design Your Own Lab</i> 88-89 <i>Lab</i> 77 <i>Mini Lab</i> 81</p> <p>(L) <i>Design Your Own Lab</i> 54-55 <i>Lab</i> 53 <i>Mini Lab</i> 40</p> <p>Teacher Wraparound Edition:</p> <p>(K) <i>AIL</i> 89; <i>As</i> 81; <i>DI</i> 81; <i>LD</i> 74; <i>MM</i> 73; <i>SJ</i> 82</p> <p>(L) <i>AIL</i> 54; <i>As</i> 55; <i>SJ</i> 42</p>

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
MOTIONS AND FORCES			
D.8.5 While conducting investigations, explain the motion of objects by describing the forces acting on them	See Glencoe's Physical Science books K-O © 2008.	Student Edition: (F) 111, 126-129 <i>MiniLAB</i> 111 <i>Integrate Physics</i> 114 (J) 17 <i>MiniLAB</i> 21 <i>Integrate Physics</i> 72 Teacher Wraparound Edition: (F) ACT 128; VL 128	Student Edition: (M) <i>Design Your Own Lab</i> 56-57 <i>Friction in Traffic</i> 196 <i>Lab</i> 55 <i>Mini Lab</i> 40 Teacher Wraparound Edition: (M) As 55; DI 39; FT 196; QD 38
D.8.6 While conducting investigations, explain the motion of objects using concepts of speed, velocity, acceleration, friction, momentum, and changes over time, among others, and apply these concepts and explanations to real-life situations outside the classroom	See Glencoe's Physical Science books K-O © 2008.	Student Edition: (F) 130-137 <i>Lab</i> 105 <i>Applying Math</i> 121 (G) <i>Applying Science</i> 77 <i>Design Your Own Lab</i> 82-83 <i>Lab</i> 114-115 (I) <i>Model and Invent Lab</i> 56-57 Teacher Wraparound Edition: (G) ACT 97	Student Edition: (M) <i>Design Your Own Lab</i> 26-27 <i>Friction in Traffic</i> 196 <i>Lab</i> 25, 55 Teacher Wraparound Edition: (M) A 58; AIL 26; As 13, 25, 27, 35, 40, 55; FT 196

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
D.8.7 While conducting investigations of common physical and chemical interactions occurring in the laboratory and the outside world, use commonly accepted definitions of energy and the idea of energy conservation	Student Edition: (A) 17, 83-85 (B) 128 (E) 51-52 Teacher Wraparound Edition: (A) TTPK 83 (E) TFYI 52	Student Edition: (F) 66-75, 76-81, 140 <i>Lab 44</i> <i>MiniLAB 73</i> <i>Applying Math 143</i> (G) <i>Design Your Own Lab</i> 54-55 (J) 115-116 Teacher Wraparound Edition: (F) LD 78; MM 78; VL 80	Student Edition: (L) <i>Design Your Own Lab</i> 54-55 (M) <i>Lab 138</i> Teacher Wraparound Edition: (K) QD 51 (L) AIL 54 (M) SJ 129

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
TRANSFER OF ENERGY			
D.8.8 Describe and investigate the properties of light, heat, gravity, radio waves, magnetic fields, electrical fields, and sound waves as they interact with material objects in common situations	<p>Student Edition:</p> <p>(B) 126, 128</p> <p>(C) <i>The Nature of Science</i> 3</p> <p>(D) 131-132</p> <p>(E) 97-100 <i>Lab</i> 111</p> <p><i>Lab: Model and Invent</i> 116-117</p> <p><i>National Geographic</i> 101</p> <p>Teacher Wraparound Edition:</p> <p>(B) LD 126</p> <p>(D) AC 131; DI 131; VL 131</p> <p>(E) FF 97</p>	<p>Student Edition:</p> <p>(F) <i>Lab</i> 82</p> <p><i>MiniLAB</i> 111</p> <p><i>Integrate Physics</i> 131</p> <p>(G) 24, 64-68, 92-93</p> <p><i>Integrate Physics</i> 20, 67</p> <p>(I) 17-19</p> <p><i>MiniLAB</i> 19</p> <p><i>Design Your Own Lab</i> 26-27</p> <p>(J) 8-13, 17, 42</p> <p><i>Applying Math</i> 13</p> <p><i>MiniLAB</i> 42, 79</p> <p><i>Lab</i> 60-61</p> <p>Teacher Wraparound Edition:</p> <p>(F) VL 80</p> <p>(G) TFYI 65</p> <p>(J) A 13; DI 9; IL 9; QD 42</p>	<p>Student Edition:</p> <p>(M) 43-44, 128-130</p> <p><i>Figure</i> 12 135</p> <p>(N) 11, 39-43</p> <p><i>Mini Lab</i> 42</p> <p>(O) 36-42, 67-69, 72-73, 81-82, 85, 96-100</p> <p><i>Design Your Own Lab</i> 86-87</p> <p><i>Figure</i> 19 81</p> <p><i>Integrate Astronomy</i> 42</p> <p><i>Integrate Physics</i> 103</p> <p><i>Lab</i> 80</p> <p><i>Mini Lab</i> 97</p> <p><i>National Geographic</i> 43</p> <p><i>Science Online</i> 67</p> <p>Teacher Wraparound Edition:</p> <p>(M) QD 133</p> <p>(N) DI 11, 39; IM 36F; QD 41; SCB 36E</p> <p>(O) A 39; AIL 86; As 80, 100; D 37, 40; IP 103; LD 68; NG 43; QD 37; R 100; SCB 34E; SJ 72; TPK 36; VL 81</p>

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
D.8.9 Explain the behaviors of various forms of energy by using the models of energy transmission, both in the laboratory and in real-life situations in the outside world	<p>Student Edition: (B) 126 (D) 131-132 (E) 97-100 <i>Lab</i> 111 <i>Lab: Model and Invent</i> 116-117 <i>National Geographic</i> 101</p> <p>Teacher Wraparound Edition: (B) LD 126 (D) AC 131; DI 131; VL 131 (E) FF 97; QD 37</p>	<p>Student Edition: (F) 73-75, 76-81, 126, 130-131 (H) 110-111 <i>National Geographic</i> 112 (I) 17-19 (J) 8-9</p> <p>Teacher Wraparound Edition: (H) V 112 (I) CFU 20 (J) DIS 9</p>	<p>Student Edition: (M) 128-130, 135-137 <i>Figure 10</i> 133 <i>Figure 12</i> 135 <i>Figure 14</i> 136 <i>Figure 18</i> 141 <i>Integrate Life Science</i> 133 <i>Mini Lab</i> 133 <i>National Geographic</i> 134</p> <p>(O) 66, 81-82, 85 <i>Figure 19</i> 81 <i>Figure 22</i> 85</p> <p>Teacher Wraparound Edition: (M) A 128; D 129; DI 129; NG 134; R 137; SJ 129; VL 133 (O) As 85; VL 81</p>

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
D.8.10 Explain how models of the atomic structure of matter have changed over time, including historical models and modern atomic theory	<p>The following page references can be incorporated to meet this standard.</p> <p>Student Edition: (A) 68-69</p> <p>Teacher Wraparound Edition: (A) 69</p> <p>Also see Glencoe's Physical Science books K-O © 2008.</p>	<p>See Glencoe's Physical Science books K-O © 2008.</p>	<p>Student Edition: (K) 8-9, 11-17 <i>Figure 3 9</i> <i>Figure 8 12</i> <i>Figure 11 14</i> <i>Mini Lab 15</i> <i>Time Science and Society 32</i></p> <p>(L) 8-10 <i>Figure 4 10</i></p> <p>Teacher Wraparound Edition: (K) A 14; D 32; HS 32; MM 9; R 17, 32; SJ 14; VL 12</p> <p>(L) VL 10</p>

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
Standard E: Earth and Space Science			
STRUCTURE OF EARTH SYSTEM			
E.8.1 Using the science themes, explain and predict changes in major features of land, water, and atmospheric systems	Student Edition: (A) 165, 167 (E) 36-42, 44-47, 49, 102-110, 135-136 <i>Applying Math</i> 40 <i>Lab</i> 111 <i>National Geographic</i> 48 <i>Section Review</i> 49 (#2) Teacher Wraparound Edition: (A) SJ 167 (E) CFU 49; DI 41; IL 39; QD 41	Student Edition: (F) 126-129, 162-169 <i>Use the Internet Lab</i> 116-117 (G) 36-41, 64-68, 69-74, 92-102 <i>Lab</i> 75, 114-115 <i>Design Your Own Lab</i> 82-83 (H) 143-147 (I) 14-15, 44-51, 74-84 <i>Science and History</i> 88 Teacher Wraparound Edition: (F) AIL 116 (G) A 75 (I) DIS 88	Student Edition: (M) 140, 167 <i>Figure 17</i> 140 <i>Integrate Life Science</i> 167 (O) <i>Integrate Earth Science</i> 14 <i>Lab</i> 88-89 Teacher Wraparound Edition: (M) AIL 88; As 89 (O) A 15; IL 14

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
E.8.2 Describe underlying structures of the earth that cause changes in the earth's surface	See Glencoe's Earth Science books <i>F-J</i> © 2008.	Student Edition: (F) 98-101, 102-104, 106-115, 126-129, 130-137, 156-161, 162-169, 171-175 <i>Lab</i> 105 <i>Science Online</i> 108 <i>MiniLAB</i> 160 <i>Design Your Own Lab</i> 176-177 (G) 11-13 Teacher Wraparound Edition: (F) ACT 109; CC 113 (G) A 13; CFU 13; SJ 12	Student Edition: (M) 139 Teacher Wraparound Edition: (O) A 15; IL 14

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
E.8.3 Using the science themes during the process of investigation, describe climate, weather, ocean currents, soil movements and changes in the forces acting on the earth	<p>Student Edition: (E) 36-42, 102-110, 135-136 <i>Integrate Earth Science</i> 74 <i>Launch Lab</i> 93 <i>MiniLab</i> 96</p> <p>Teacher Wraparound Edition: (E) TFYI 109</p>	<p>Student Edition: (G) 36-41, 64-68, 69-74 <i>Science Online</i> 39 <i>MiniLAB</i> 65 <i>Lab</i> 75 <i>Design Your Own Lab</i> 82-83</p> <p>(H) 104-109 (I) 74-80 <i>MiniLAB</i> 19, 38, 53, 67 <i>Design Your Own Lab</i> 26-27 <i>Model and Invent Lab</i> 56-57 <i>Lab</i> 85</p> <p>Teacher Wraparound Edition: (H) LD 108 (I) IL 46</p>	<p>Student Edition: (M) <i>Lab</i> 88-89 (N) <i>Applying Science</i> 41</p> <p>Teacher Wraparound Edition: (M) AIL 88; As 89 (N) A 30</p>

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
E.8.4 Using the science themes, analyze the influence living organisms have had on the earth's systems, including their impact on the composition of the atmosphere and the weathering of rocks	Student Edition: (B) 16, 64 (E) 37, 38, 46-47, 49, 64-65 <i>Lab</i> 43 <i>National Geographic</i> 48 Teacher Wraparound Edition: (B) TFYI 64 (E) QD 65	Student Edition: (G) 36-41, 42-45, 50-53, 163 <i>Section Review</i> 41 <i>Science Online</i> 51 (I) 14-15, 96-102 Teacher Wraparound Edition: (G) CC 38; DI 52; DIS 163; SCB 34E; VL 51 (I) SCB 6E	Student Edition: (L) <i>Integrate Life Science</i> 82 (M) 140 Teacher Wraparound Edition: (L) ILS 82 (M) SJ 140
EARTH'S HISTORY			
E.8.5 Analyze the geologic and life history of the earth, including change over time, using various forms of scientific evidence	Student Edition: (A) 165-167, 169 <i>National Geographic</i> 168 <i>Science Online</i> 167 Teacher Wraparound Edition: (A) AC 168; SJ 166; UA 169	Student Edition: (G) 124-131, 132-137, 139-143, 154-161, 162-168, 170-175 <i>Science Online</i> 133, 136 <i>Lab</i> 138 <i>MiniLAB</i> 164, 174 <i>Use the Internet Lab</i> 176-177 Teacher Wraparound Edition: (G) AIL176; D 159; DI 171; IL 136; R 137; SJ 166	Student Edition: (M) 140 <i>Figure 17</i> 140 <i>Integrate Earth Science</i> 140 Teacher Wraparound Edition: (M) UA 140

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
E.8.6 Describe through investigations the use of the earth's resources by humans in both past and current cultures, particularly how changes in the resources used for the past 100 years are the basis for efforts to conserve and recycle renewable and non-renewable resources	<p>Student Edition: (E) 94-100, 102-110, 112-115, 133-136, 138-143 <i>Applying Science</i> 114 <i>MiniLab</i> 96 <i>Section Review</i> 115 (#4) <i>The Nature of Science</i> 2-5</p> <p>Teacher Wraparound Edition: (E) CB 3; CC 96, 107; DI 98; QD 5</p>	<p>Student Edition: (F) 19-25, 66-75, 76-81, 83-87 <i>MiniLAB</i> 73 <i>Applying Science</i> 86 (H) <i>Use the Internet Lab</i> 148-149</p> <p>Teacher Wraparound Edition: (F) ACT 72, 79; CFU 81; IL 79; MM 73; QD 77; SCB 64E-64F (H) AIL 148</p>	<p>Student Edition: (L) <i>Integrate Earth Science</i> 98 (M) <i>Applying Science</i> 142 <i>Lab</i> 148-149</p> <p>Teacher Wraparound Edition: (L) IES 98 (M) AIL 148; As 149; CD 142; R 147</p>

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
EARTH IN THE SOLAR SYSTEM			
E.8.7 Describe the general structure of the solar system, galaxies, and the universe, explaining the nature of the evidence used to develop current models of the universe	<p>The following page references can be incorporated to meet this standard.</p> <p>Student Edition: (A) 23 (E) 9</p> <p>Also see Glencoe's Earth Science books <i>F-J</i> © 2008.</p>	<p>Student Edition: (J) 70-74, 76-81, 82-89, 90-93, 104-108, 109-112, 114-119, 120-125 <i>Science Online</i> 72 <i>National Geographic</i> 73, 124 <i>MiniLAB</i> 84, 122 <i>Model and Invent Lab</i> 94-95 <i>Launch Lab</i> 103</p> <p>Teacher Wraparound Edition: (J) ACT 88; DI 73, 122, 123; IL 123; QD 123; R 125; SJ 124; UAA 125; V 124</p>	<p>Student Edition: (M) <i>Integrate History</i> 43 (O) <i>National Geographic</i> 78</p> <p>Teacher Wraparound Edition: (M) IH 43 (O) NG 78</p>

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
E.8.8 Using past and current models of the structure of the solar system, explain the daily, monthly, yearly, and long-term cycles of the earth, citing evidence gained from personal observation as well as evidence used by scientists	Also see Glencoe's Earth Science books <i>F-J</i> © 2008.	Student Edition: (I) 74-75 (J) 40-45, 74 <i>Launch Lab</i> 39 <i>Get Ready to Read</i> 40A-40B <i>Science Online</i> 43, 95 <i>Lab</i> 75 Teacher Wraparound Edition: (J) CFU 74; QD 44; R 45; SCB 38E; SJ 72	See Glencoe's Earth Science books <i>F-J</i> © 2008.
F. Life and Environmental Science			
STRUCTURE AND FUNCTION IN LIVING THINGS			
F.8.1 Understand the structure and function of cells, organs, tissues, organ systems, and whole organisms	Student Edition: (A) 16, 41-47 <i>Chapter Review</i> 63 (#24) <i>Reading Check</i> 47 <i>Section Review</i> 47 (#3) (B) 74-77 <i>Integrate Health</i> 77 (C) 8 (D) 49-53, 64-69, 80-81, 92-95 Teacher Wraparound Edition: (B) IH 77 (D) QD 66, 93	See Glencoe's Life Science books <i>A-E</i> © 2008.	Student Edition: (L) 108-115 Teacher Wraparound Edition: (L) CD 112

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
F.8.2 Show how organisms have adapted structures to match their functions, providing means of encouraging individual and group survival within specific environments	<p>Student Edition:</p> <p>(A) 160-161 <i>Lab</i> 164 <i>Launch Lab</i> 155 <i>MiniLab</i> 173 <i>Section Review</i> 163 (#5)</p> <p>(B) 64-65</p> <p>(C) 9-11 <i>MiniLab</i> 10</p> <p>(E) 69, 74 <i>MiniLab</i> 72</p> <p>Teacher Wraparound Edition:</p> <p>(A) AS 155 (B) AC 65 (C) VL 11 (E) LD 72</p>	<p>Student Edition:</p> <p>(G) 156-161, 166 <i>Launch Lab</i> 153</p> <p>(H) 137-142 <i>Integrate Life Science</i> 115</p> <p>(I) 70-73</p> <p>Teacher Wraparound Edition:</p> <p>(G) A 161; ACT 158; DIS 157</p> <p>(H) ACT 141; SCB 126F</p> <p>(I) DI 71; FF 71; MM 72; UAA 71; VL 72</p>	<p>Student Edition:</p> <p>(M) <i>Integrate Life Science</i> 10, 87, 111, 166</p> <p>(N) <i>Integrate Life Science</i> 42</p> <p>(O) <i>Integrate Life Science</i> 41, 76</p> <p>Teacher Wraparound Edition:</p> <p>(L) D 114 (M) DI 110</p>

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
F.8.3 Differentiate between single-celled and multiple-celled organisms (humans) through investigation, comparing the cell functions of specialized cells for each type of organism	Student Edition: (A) 16, 40-41 <i>Section Review 47 (#4)</i> (B) 9-10 (D) 74, 119 <i>Science Online 75</i> <i>Section Review 126 (#1)</i> Teacher Wraparound Edition: (A) CFU 13; DI 41; QD 41 (B) IM 10; TTPK 8	See Glencoe's Life Science books A-E © 2008.	See Glencoe's Life Science books A-E © 2008.
REPRODUCTION AND HEREDITY			
F.8.4 Investigate and explain that heredity is comprised of the characteristic traits found in genes within the cell of an organism	Student Edition: (A) 114-115, 128, 134 <i>Launch Lab 126</i> <i>The Nature of Science 2</i> Teacher Wraparound Edition: (A) TBI 126	See Glencoe's Life Science books A-E © 2008.	See Glencoe's Life Science books A-E © 2008.

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
F.8.5 Show how different structures both reproduce and pass on characteristics of their group	<p>Student Edition:</p> <p>(A) 19, 98-104, 106-109, 128 <i>Lab</i> 105 <i>MiniLab</i> 103</p> <p>(B) 10, 32, 45, 98-101, 103-110</p> <p>(C) 16, 45, 79, 86, 117</p> <p>(D) 151-153, 157</p> <p>Teacher Wraparound Edition:</p> <p>(A) QD 101; TTPK 106</p> <p>(B) DI 100; IL 108; MM 10; VL 45</p> <p>(D) DIF 152</p>	See Glencoe's Life Science books A-E © 2008.	See Glencoe's Life Science books A-E © 2008.

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
REGULATION AND BEHAVIOR			
F.8.6 Understand that an organism is regulated both internally and externally	<p>Student Edition:</p> <p>(A) 17, 79-80 <i>National Geographic</i> 81 <i>Science Online</i> 17</p> <p>(B) 75, 124-125, 133-134 <i>Lab</i> 132</p> <p>(C) 81 <i>Lab</i> 76 <i>Lab: Design Your Own</i> 96-97 <i>MiniLab</i> 81</p> <p>(D) 22, 69, 96, 102-104, 146-147, 150 <i>MiniLab</i> 22 <i>National Geographic</i> 148-149</p> <p>Teacher Wraparound Edition:</p> <p>(A) UA 17</p> <p>(D) TFYI 102</p>	<p>Student Edition:</p> <p>(H) <i>Integrate Life Science</i> 14</p> <p>(I) <i>Integrate Life Science</i> 37</p>	<p>Student Edition:</p> <p>(M) <i>Integrate Life Science</i> 107, 133, 135</p>

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
F.8.7 Understand that an organism's behavior evolves through adaptation to its environment	Student Edition: (A) 160 (C) 11, 134-136 <i>Lab</i> 149 <i>Section Assessment</i> 13 (#4) Teacher Wraparound Edition: (C) DIF 11; LD 136	Student Edition: (G) 156-161	Student Edition: (M) <i>Integrate Life Science</i> 10, 87, 111, 135, 166 (N) <i>Integrate Life Science</i> 42 (O) <i>Integrate Life Science</i> 41, 76 Teacher Wraparound Edition: (M) DI 110
POPULATIONS AND ECOSYSTEMS			
F.8.8 Show through investigations how organisms both depend on and contribute to the balance or imbalance of populations and/or ecosystems, which in turn contribute to the total system of life on the planet	Student Edition: (E) 8-10, 12-17, 20-24, 126-129 <i>Applying Science</i> 15 <i>Lab</i> 76, 144-145 <i>Lab: Design Your Own</i> 26-27 <i>Launch Lab</i> 7 <i>MiniLab</i> 13 <i>National Geographic</i> 18 Teacher Wraparound Edition: (E) AC 18; CFU 24	Student Edition: (H) 46-49, 52, 135-137 (I) 84, 93 #13, 107-109 Teacher Wraparound Edition: (H) CB 150	Student Edition: (M) <i>Applying Science</i> 142 <i>Design and Research</i> 176 <i>Integrate Earth Science</i> 140 <i>Lab</i> 148-149 Teacher Wraparound Edition: (M) AIL 148; As 149; CYD 149; DR 176

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
DIVERSITY AND ADAPTATIONS OF ORGANISMS			
F.8.9 Explain how some of the changes on the earth are contributing to changes in the balance of life and affecting the survival or population growth of certain species	Student Edition: (E) 49, 94-95, 102-110, 130-131, 133-136 <i>Lab</i> 111 <i>Launch Lab</i> 125 <i>Time: Science and Society</i> 146 Teacher Wraparound Edition: (E) SJ 130; TFYI 132	Student Edition: (H) 143-147 (I) 107-109 Teacher Wraparound Edition: (H) CD 144; DIS 146; QD 144; TFYI 146 (I) CFU 110; IL 108; QD 107; R 110; TFYI 107, 109; VL 107, 109	Student Edition: (L) <i>Integrate Life Science</i> 82 Teacher Wraparound Edition: (L) ILS 82 (M) CYD 149
F.8.10 Project how current trends in human resource use and population growth will influence the natural environment, and show how current policies affect those trends	Student Edition: (E) 94-95, 102-110, 112-115, 130-131, 133-136 <i>Applying Science</i> 114 <i>Launch Lab</i> 93 <i>MiniLab</i> 133 <i>Time: Science and Society</i> 146 Teacher Wraparound Edition: (E) TFYI 132	Student Edition: (H) 54-57, 76-84, 143-147 <i>National Geographic</i> 77 <i>Applying Science</i> 81 <i>Science Online</i> 81 (I) 14-15, 81-84, 96-102, 111-115 <i>Science Online</i> 112 <i>National Geographic</i> 113 Teacher Wraparound Edition: (H) ACT 77; CC 56; CD 144; TFYI 78; V 77 (I) CD 99; TFYI 114	Student Edition: (M) <i>Applying Science</i> 142 <i>Integrate Earth Science</i> 140 <i>Lab</i> 148-149 Teacher Wraparound Edition: (M) AIL 148; CYD 149; D 145; SJ 140

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
Standard G: Science Applications			
G.8.1 Identify* and investigate* the skills people need for a career in science or technology and identify the academic courses that a person pursuing such a career would need	Student Edition: (A) 142 <i>Integrate Career 85</i> <i>The Nature of Science 5</i> (B) <i>Integrate Career 50, 125</i> (D) <i>Integrate Career 158</i> Teacher Wraparound Edition: (A) IC 85 (B) IC 50, 125 (D) IC 158	Student Edition: (F) <i>The Nature of Science 2-5</i> <i>You Do It 5</i> <i>Integrate Career 52, 113, 141</i> (G) <i>Integrate Career 51, 93</i> (H) <i>The Nature of Science 2-5</i> <i>Integrate Career 108, 136</i> (I) <i>The Nature of Science 2-5</i> (J) <i>Integrate Career 18, 51</i> Teacher Wraparound Edition: (G) DI 20; IES 56 (H) ACT 4	Student Edition: (L) <i>Time Science and Society 118</i> (M) <i>Integrate Career 78, 172</i> (N) <i>Integrate Career 78</i> Teacher Wraparound Edition: (M) IC 78, 172 (N) IC 78

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
G.8.2 Explain* how current scientific and technological discoveries have an influence on the work people do and how some of these discoveries also lead to new careers	<p>The following page references can be incorporated to meet this standard.</p> <p>Student Edition:</p> <p>(A) 143-145 <i>The Nature of Science</i> 2-5 <i>National Geographic</i> 50-51</p> <p>(B) <i>Integrate Career</i> 50, 125</p> <p>(D) <i>The Nature of Science</i> 2-5</p> <p>(E) <i>Time: Science and Society</i> 86</p> <p>Teacher Wraparound Edition:</p> <p>(A) AC 4; CB 3; CFU 145; IE 144</p> <p>(B) IC 50, 125</p> <p>(D) CB 3</p> <p>(E) DI 86</p>	<p>Student Edition:</p> <p>(F) <i>The Nature of Science</i> 2-5 <i>Science and History</i> 28</p> <p>(G) 24 <i>Science Online</i> 22</p> <p>(H) <i>The Nature of Science</i> 2-5 <i>You Do It</i> 5</p> <p>(I) 52-54 <i>The Nature of Science</i> 2-5</p> <p>(J) 8-13, 15-22, 23-29</p> <p>Teacher Wraparound Edition:</p> <p>(H) DIS 3</p> <p>(I) MM 4; SCB 34F</p>	<p>Student Edition:</p> <p>(L) <i>Time Science and Society</i> 118</p> <p>(N) <i>Integrate Career</i> 78 <i>Interview</i> 86</p> <p>(O) <i>Time Science and History</i> 88</p> <p>Teacher Wraparound Edition:</p> <p>(K) CD 107</p> <p>(L) CB 118; I 118</p> <p>(M) CB 118; CD 172; R 118</p> <p>(N) CC 21; I 86; IC 78; SJ 80</p> <p>(O) B 88; HS 88</p>

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
G.8.3 Illustrate* the impact that science and technology have had, both good and bad, on careers, systems, society, environment, and quality of life	<p>Student Edition:</p> <p>(A) 141-142, 143-145 <i>Integrate Career</i> 52, 85 <i>Integrate Environment</i> 144 <i>National Geographic</i> 50-51 <i>The Nature of Science</i> 4-5</p> <p>(B) <i>Integrate Career</i> 50 <i>Time: Science and Society</i> 116</p> <p>(D) <i>The Nature of Science</i> 2-5 <i>Time: Science and Society</i> 56</p> <p>(E) 102-110 <i>Lab</i> 111</p> <p>Teacher Wraparound Edition:</p> <p>(A) AC 4; IC 52, 85 (B) IC 50 (E) DI 103</p>	<p>Student Edition:</p> <p>(F) 73-75, 76-81, 139-143 <i>Science and History</i> 28 <i>Integrate Career</i> 141</p> <p>(G) <i>Science and Society</i> 116</p> <p>(H) 143-147</p> <p>(I) 81-84 <i>Science and Society</i> 58</p> <p>(J) 29 <i>Science and Society</i> 32</p> <p>Teacher Wraparound Edition:</p> <p>(F) DI 80; DIS 74; LD 70; TS 86; V 72 (I) LD 82 (J) DI 18; DIS 17</p>	<p>Student Edition:</p> <p>(K) 10 <i>Integrate Health</i> 116 <i>National Geographic</i> 115</p> <p>(L) 51 <i>Integrate History</i> 51 <i>Time Science and History</i> 56 <i>Time Science and Society</i> 118</p> <p>(M) <i>Figure 10</i> 133 <i>Time Science and Society</i> 58, 118, 176</p> <p>(N) 73, 77-80 <i>Time Science and Society</i> 86</p> <p>(O) 2-3, 72-74, 84-85 <i>Integrate Astronomy</i> 79 <i>Time Science and History</i> 88</p> <p>Teacher Wraparound Edition:</p> <p>(K) NG 115 (L) CB 118; D 56; IH 51 (M) CB 58, 118, 176; CD 172; SJ 145; VL 133 (N) CB 86; SJ 80; TPK 73 (O) CB 3, 88; HS 88; VL 85</p>

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
G.8.4 Propose a design (or re-design) of an applied science model or a machine that will have an impact in the community or elsewhere in the world and show* how the design (or re-design) might work, including potential side-effects	<p>The following page references can be incorporated to meet this standard.</p> <p>Student Edition:</p> <p>(B) <i>Oops! Accidents in Science</i> 86</p> <p>(C) <i>Lab: Model and Invent</i> 150-151</p> <p>(D) <i>Oops! Accidents in Science</i> 28</p> <p>(E) <i>Lab: Model and Invent</i> 116-117</p> <p>Teacher Wraparound Edition:</p> <p>(B) LI 86</p> <p>(D) IN 28</p> <p>(E) AC 113</p>	<p>Student Edition:</p> <p>(F) <i>Model and Invent Lab</i> 88-89</p> <p><i>MiniLAB</i> 144</p> <p>(J) <i>Lab</i> 14</p> <p>Teacher Wraparound Edition:</p> <p>(F) A 144; IL 79, 134; MM 79; R 145</p> <p>(H) DI 102; IL 101</p> <p>(I) ACT 24</p> <p>(J) A 14; ACT 32; MM 25</p>	<p>Student Edition:</p> <p>(M) <i>Design Your Own Lab</i> 26-27, 116-117</p> <p><i>Mini Lab</i> 143</p> <p>Teacher Wraparound Edition:</p> <p>(M) AIL 116; As 27; DI 142</p>

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
G.8.5 Investigate* a specific local problem to which there has been a scientific or technological solution, including proposals for alternative courses of action, the choices that were made, reasons for the choices, any new problems created, and subsequent community satisfaction	<p>The following page references can be incorporated to meet this standard.</p> <p>Student Edition:</p> <p>(B) <i>Lab: Design Your Own</i> 22-23</p> <p><i>Time: Science and Society</i> 54</p> <p>(D) <i>Oops! Accidents in Science</i> 28</p> <p><i>Time: Science and Society</i> 56</p> <p>(E) 112-115, 139-143</p> <p><i>Time: Science and Society</i> 86, 146</p> <p>Teacher Wraparound Edition:</p> <p>(E) AC 141; DIF 113, 114</p>	<p>Student Edition:</p> <p>(H) 54-57, 147</p> <p><i>Science Online</i> 81</p> <p>(I) 111-115</p> <p><i>Integrate Social Studies</i> 97</p> <p><i>National Geographic</i> 113</p> <p>Teacher Wraparound Edition:</p> <p>(F) ACT 79</p> <p>(G) R 53</p> <p>(H) CFU 57; DI 82; IL 56, 83</p> <p>(I) A 117; AIL 116; CD 99; IL 108</p>	<p>Student Edition:</p> <p>(K) <i>Lab</i> 118-119</p> <p>(M) <i>Lab</i> 148-149</p> <p><i>Time Science and Society</i> 176</p> <p>(N) <i>Time Science and Society</i> 30</p> <p>Teacher Wraparound Edition:</p> <p>(K) AIL 118</p> <p>(M) AIL 148; CB 176; CYD 149; D 118; DR 176</p> <p>(N) A 30; CB 30; D 30</p>

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
G.8.6 Use current texts, encyclopedias, source books, computers, experts, the popular press, or other relevant sources to identify* examples of how scientific discoveries have resulted in new technology	<p>Student Edition:</p> <p>(A) 49, 143-145 <i>Integrate Environment</i> 144 <i>The Nature of Science</i> 4</p> <p>(B) <i>Time: Science and Society</i> 116</p> <p>(D) <i>The Nature of Science</i> 2-3</p> <p>(E) <i>Time: Science and Society</i> 86</p> <p>Teacher Wraparound Edition:</p> <p>(A) AC 4; RT 145</p> <p>(B) CB 116</p>	<p>Student Edition:</p> <p>(F) 114-115, 127-129 <i>The Nature of Science</i> 2-5 <i>Science Online</i> 79</p> <p>(G) 139-143 <i>Science Online</i> 142</p> <p>(H) <i>The Nature of Science</i> 2-5 <i>You Do It</i> 5</p> <p>(J) 8-13</p> <p>Teacher Wraparound Edition:</p> <p>(J) DI 9</p>	<p>Student Edition:</p> <p>(K) <i>Lab</i> 118-119</p> <p>(M) <i>Lab</i> 148-149</p> <p>Teacher Wraparound Edition:</p> <p>(K) AIL 118; MP 118</p> <p>(M) AIL 148</p>

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
G.8.7 Show* evidence* of how science and technology are interdependent, using some examples drawn from personally conducted investigations*	<p>Student Edition:</p> <p>(A) 49, 52-53, 143-145 <i>Lab: Design Your Own</i> 58-59 <i>National Geographic</i> 50-51</p> <p>(B) <i>Time: Science and Society</i> 116</p> <p>(D) <i>The Nature of Science</i> 2-5</p> <p>(E) <i>Lab: Model and Invent</i> 116-117 <i>Time: Science and Society</i> 86</p> <p>Teacher Wraparound Edition:</p> <p>(A) SJ 50</p>	<p>Student Edition:</p> <p>(F) 102-104, 133-137 <i>Science Online</i> 133</p> <p>(G) 24 <i>Integrate Physics</i> 20 <i>Science Online</i> 22, 142</p> <p>(J) 8-13, 15-22, 23-29, 56-59</p> <p>Teacher Wraparound Edition:</p> <p>(F) CB 82; DI 103; SJ 133; TFYI 103</p> <p>(J) DI 123; DIS 17</p>	<p>Student Edition:</p> <p>(K) <i>Cathode Rays</i> 10 <i>Design Your Own Lab</i> 88-89 <i>National Geographic</i> 115</p> <p>(L) 2-3 <i>National Geographic</i> 80</p> <p>(M) 172-173 <i>Design Your Own Lab</i> 26-27 <i>Lab</i> 148-149 <i>National Geographic</i> 171 <i>Time Science and Society</i> 58, 118, 176</p> <p>(N) 4, 43, 53-55, 66-71, 73-75 <i>Integrate Chemistry</i> 17 <i>You Do It</i> 5</p> <p>(O) 113-117 <i>Figure 7 5</i> <i>Integrate Astronomy</i> 79 <i>National Geographic</i> 78 <i>Oops! Accidents in Science</i> 120 <i>You Do It</i> 5</p> <p>Teacher Wraparound Edition:</p> <p>(K) AIL 89; DI 115; NG 115</p>

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
Continued from cell on previous page G.8.7 Show* evidence* of how science and technology are interdependent, using some examples drawn from personally conducted investigations*	Continued from cell on previous page	Continued from cell on previous page	Continued from cell on previous page (L) A 80; CB 3; DI 80 (M) A 176; As 27, 173; CB 58, 118, 176; NG 171 (N) CC 21, 54; CD 53; D 54; IL 69; YDI 5 (O) A 78; AE 120; D 120; NG 78; VL 5, 115; YDI 5
Standard H: Science in Personal and Social Perspectives			
H.8.1 Evaluate the scientific evidence used in various media (for example, television, radio, Internet, popular press, and scientific journals) to address a social issue, using criteria of accuracy, logic, bias, relevance of data, and credibility of sources	Student Edition: (A) <i>Lab: Use the Internet</i> 118-119 <i>Science Online</i> 10, 55 <i>Science Skill Handbook</i> 186 (B) <i>Lab: Use the Internet</i> 84-85 <i>Science Online</i> 19, 36 (C) <i>Science Online</i> 12 (E) <i>Lab: Use the Internet</i> 84-85 <i>Science Online</i> 16 Teacher Wraparound Edition: (A) AIL 118 (D) CC 2; MO 2; FOAI 168	Student Edition: (F) <i>You Do It 5</i> <i>Science Skill Handbook</i> 186 (G) <i>Science Skill Handbook</i> 186 (H) <i>Science Skill Handbook</i> 158 (I) <i>Lab</i> 16 <i>Science Skill Handbook</i> 126 (J) <i>Science Skill Handbook</i> 136 Teacher Wraparound Edition: (F) DIS 15	Student Edition: (K) <i>Lab</i> 118-119 (M) <i>Lab</i> 148-149 Teacher Wraparound Edition: (K) AIL 118 (M) AIL 148

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
H.8.2 Present a scientific solution to a problem involving the earth and space, life and environmental, or physical sciences and participate in a consensus-building discussion to arrive at a group decision	<p>Student Edition:</p> <p>(B) <i>Lab: Design Your Own</i> 22-23</p> <p><i>Lab: Model and Invent</i> 52-53</p> <p>(D) <i>Lab: Model and Invent</i> 150-151</p> <p><i>Oops! Accidents in Science</i> 28</p> <p>Teacher Wraparound Edition:</p> <p>(B) AIL 22</p> <p>(D) IN 28</p> <p>(E) AS 115; CFU 143; DIF 114, 132</p>	<p>Student Edition:</p> <p>(F) <i>The Nature of Science</i> 2-5</p> <p><i>Model and Invent Lab</i> 88-89</p> <p>(G) 50-53, 68</p> <p><i>The Nature of Science</i> 2-3</p> <p><i>Section Review</i> 68</p> <p><i>Science Online</i> 78</p> <p>(I) <i>You Do It</i> 5</p> <p><i>Model and Invent Lab</i> 56-57</p> <p><i>Debate</i> 58</p> <p>(J) <i>Debate</i> 32</p> <p>Teacher Wraparound Edition:</p> <p>(F) ACT 79</p> <p>(G) ACT 51; LD 100; R 53</p> <p>(H) DI 102; IL 101</p> <p>(J) ACT 32</p>	<p>Student Edition:</p> <p>(M) <i>Lab</i> 149</p> <p>Teacher Wraparound Edition:</p> <p>(K) AIL 118</p> <p>(M) AIL 148</p> <p>(N) CYD 85</p>

STANDARDS	PAGE REFERENCES		
	Life Science (A-E)	Earth Science (F-J)	Physical Science (K-O)
H.8.3 Understand the consequences of decisions affecting personal health and safety	<p>Student Edition: (A) 116 (D) 36-40, 42-45, 72, 99-100, 124, 126, 187-188 <i>Applying Science</i> 40 <i>MiniLab</i> 39 <i>Section Assessment</i> 45 (#3)</p> <p>Teacher Wraparound Edition: (A) SJ 116; TFYI 116 (D) DI 188; IL 44; LD 98; TFYI 23</p>	<p>Student Edition: (F) <i>Science Skill Handbook</i> 195-197 (G) <i>Science Skill Handbook</i> 195-197 (H) <i>Science Skill Handbook</i> 167-169 (I) <i>Integrate Health</i> 105 <i>Science Skill Handbook</i> 135-137 (J) <i>Science Skill Handbook</i> 145-147</p> <p>Teacher Wraparound Edition: (H) IM 66F (I) CC 106</p>	<p>Student Edition: (L) <i>Cholesterol</i> 115 <i>Integrate Health</i> 49 (M) <i>Time Science and Society</i> 58 (N) <i>Electrical Safety</i> 25-26 <i>Integrate Life Science</i> 26</p> <p>Teacher Wraparound Edition: (L) AIL 116; R 115 (M) CB 58; D 58 (N) DI 25; ILS 26</p>