

SRA Skills Handbook: Using Science
correlation to
Mississippi Test Blueprint for the Elementary Grades: Science Test
Grade 5

Grade 3	
Competency: 1. Investigate the interactions of objects and organisms.	
Objectives for Competency 1	
a. Identify major causes of endangerment and extinction.	<p>See: Grade 4 Student Book: pages 62, 63, 64, 65, 66, 67, 166, 167, 168, 169</p> <p>Grade 4 Teacher's Guide: pages 26, 27, 66, 67, 80, 81</p> <p>Grade 5 Student Book: pages 76, 77, 78, 79</p> <p>Grade 5 Teacher's Guide: pages 32, 33</p> <p>Grade 5 Skills Workbook: pages 31, 32</p>
b. Distinguish between harmful and helpful human actions on the environment.	<p>Grade 3 Student Book: pages 170, 171, 172, 173</p> <p>Grade 3 Teacher's Guide: pages 68, 69</p> <p>Grade 3 Skills Workbook: pages 67, 68</p> <p>See also: Grade 4 Student Book: pages 62, 63, 64, 65, 66, 67, 104, 105, 106, 107, 154, 155, 156, 157, 158, 159, 166, 167, 168, 169</p> <p>Grade 4 Teacher's Guide: pages 26, 27, 44, 45, 62, 63, 66, 67, 80, 81</p> <p>Grade 4 Skills Workbook: pages 61, 62</p> <p>Grade 5 Student Book: pages 32, 33, 34, 35, 36, 37, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 124, 125, 126, 127, 128, 129, 178, 179, 180, 181</p> <p>Grade 5 Teacher's Guide: pages 14, 15, 30, 31, 32, 33, 52, 53, 72, 73</p> <p>Grade 5 Skills Workbook: pages 13, 14, 29, 30, 31, 32, 51, 52, 71, 72</p>
c. Describe methods to prevent pollution of the environment.	<p>See: Grade 4 Student Book: pages 72, 73, 74, 75, 76, 77, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113</p> <p>Grade 4 Teacher's Guide: pages 26, 27, 30, 31, 44, 45</p> <p>Grade 5 Student Book: pages 32, 33, 34, 35, 36, 37, 124, 125, 126, 127, 128, 129, 178, 179, 180, 181</p> <p>Grade 5 Teacher's Guide: pages 14, 15, 52, 53, 72, 73</p> <p>Grade 5 Skills Workbook: pages 13, 14, 51, 52, 71, 72</p>

Grade 3	
Competency: 2. Explore the components of the living system.	
Objectives for Competency 2	
a. Classify and identify different types of seeds.	<p>Grade 3 Skills Workbook: pages 95, 96</p> <p>See also: Grade 4 Student Book: pages 32, 33, 34, 35, 36, 37</p> <p>Grade 4 Teacher's Guide: pages 14, 15</p> <p>Grade 4 Skills Workbook: pages 13, 14</p>
b. Compare and contrast dicot and monocot seeds.	<p>Grade 3 Skills Workbook: pages 95, 96</p> <p>See also: Grade 4 Student Book: pages 32, 33, 34, 35, 36, 37</p> <p>Grade 4 Teacher's Guide: pages 14, 15</p> <p>Grade 4 Skills Workbook: pages 13, 14</p>
c. Demonstrate photosynthesis.	Grade 3 Skills Workbook: pages 31, 32
d. Show that plants grow from other parts and explain the germinations of seeds.	<p>See: Grade 4 Student Book: pages 32, 33, 34, 35, 36, 37</p> <p>Grade 4 Teacher's Guide: pages 14, 15</p> <p>Grade 4 Skills Workbook: pages 13, 14</p> <p>Grade 5 Student Book: pages 38, 39, 40, 41</p> <p>Grade 5 Teacher's Guide: pages 16, 17</p> <p>Grade 5 Skills Workbook: pages 15, 17</p>
e. Label the parts and functions of a flower.	This concept is not covered at this level.
f. Explain methods of pollination.	<p>Grade 3 Student Book: pages 128, 129, 130, 131</p> <p>Grade 3 Teacher's Guide: pages 52, 53</p> <p>Grade 3 Skills Workbook: pages 51, 52</p>
g. Understand the functions of the skeletal system and label major bones of the human body.	<p>Grade 3 Student Book: pages 122, 123, 124, 125, 126, 127</p> <p>Grade 3 Teacher's Guide: pages 50, 51</p>

Grade 3	
Competency: 3. Identify and describe the appearance of stars in the night sky.	
Objectives for Competency 3	
a. Locate and identify constellations as imaginary patterns of stars that remain fixed in shape from night to night.	See: Grade 5 Student Book: pages 102, 103, 104, 105 Grade 5 Teacher's Guide: pages 42, 43 Grade 5 Skills Workbook: pages 19, 20, 41, 42
b. Describe the actual nature of stars as distant suns that appear small and faint only because of their great distances.	See: Grade 4 Student Book: pages 148, 149, 150, 151, 152, 153 See also: Grade 5 Student Book: pages 50, 51, 52, 53 Grade 5 Teacher's Guide: pages 20, 21 Grade 5 Skills Workbook: pages 19, 20

Grade 3	
Competency: 4. Discover how internal and external forces affect the Earth's surface.	
Objectives for Competency 4	
a. Describe the three major layers of the Earth.	Grade 3 Student Book: pages 4, 5, 6, 7 Grade 3 Teacher's Guide: pages 2, 3 Grade 3 Skills Workbook: pages 1, 2
b. Examine and identify rocks of different types (metamorphic, sedimentary, and igneous).	This concept is not covered at this level.
c. Discuss places fossils can be found.	Grade 3 Student Book: pages 188, 189, 190, 191 Grade 3 Teacher's Guide: pages 76, 77 Grade 3 Skills Workbook: pages 53, 54, 75, 76 See also: Grade 5 Student Book: pages 160, 161, 162, 163, 164, 165 Grade 5 Teacher's Guide: pages 64, 65 Grade 5 Skills Workbook: pages 63, 64
d. Relate how internal forces affect the Earth's surface including earthquakes and volcanoes.	Grade 3 Student Book: pages 178, 179, 180, 181, 196, 197, 198, 199, 200, 201 Grade 3 Teacher's Guide: pages 72, 73, 80, 81 Grade 3 Skills Workbook: pages 71, 72, 79, 80 See also: Grade 4 Student Book: pages 4, 5, 6, 7, 136, 137, 138, 139, 140, 141 Grade 4 Teacher's Guide: pages 2, 3, 56, 57 Grade 4 Skills Workbook: pages 1, 2 Grade 5 Student Book: pages 166, 167, 168, 169 Grade 5 Teacher's Guide: pages 66, 67 Grade 5 Skills Workbook: pages 65, 66

Grade 3	
Competency: 5. Examine changes in matter.	
Objectives for Competency 5	
a. Identify and demonstrate chemical changes.	Grade 3 Skills Workbook: pages 73, 74 See also: Grade 4 Student Book: pages 132, 133, 134, 135 Grade 4 Teacher's Guide: pages 54, 55 Grade 5 Student Book: pages 32, 33, 34, 35, 36, 37 Grade 5 Teacher's Guide: pages 14, 15 Grade 5 Skills Workbook: pages 13, 14
b. Identify and demonstrate physical changes.	Grade 3 Student Book: pages 136, 137, 138, 139 Grade 3 Teacher's Guide: pages 56, 57 Grade 3 Skills Workbook: pages 55, 56

Grade 3	
Competency: 6. Analyze changes in matter.	
Objectives for Competency 6	
a. Label an illustration of the water cycle.	Grade 3 Student Book: pages 18, 19, 20, 21 Grade 3 Teacher's Guide: pages 8, 9 Grade 3 Skills Workbook: pages 7, 8 See also: Grade 5 Student Book: pages 32, 33, 34, 35, 36, 37 Grade 5 Teacher's Guide: pages 14, 15 Grade 5 Skills Workbook: pages 13, 14
b. Collect and graph weather data.	Grade 3 Student Book: pages 106, 107, 108, 109, 110, 111 Grade 3 Teacher's Guide: pages 44, 45 Grade 3 Skills Workbook: pages 43, 44 See also: Grade 4 Student Book: pages 8, 9, 10, 11, 12, 13, 174, 175, 176, 177, 178, 179, 190, 191, 192, 193 Grade 4 Teacher's Guide: pages 3, 4, 70, 71, 76, 77 Grade 4 Skills Workbook: pages 3, 4 Grade 5 Student Book: pages 4, 5, 6, 7, 8, 9, 80, 81, 82, 83, 84, 85 Grade 5 Teacher's Guide: pages 2, 3, 34, 35 Grade 5 Skills Workbook: pages 1, 2, 33, 34

Grade 3	
Competency: 7. Develop the process of measurement and related concepts.	
Objectives for Competency 7	
a. Identify and compare differences among length, weight/mass, and capacity/volume using English and metric measures.	<p>Grade 3 Student Book: pages 8, 9, 10, 11, 12, 13, 22, 23, 24, 25, 26, 27, 106, 107, 108, 109, 110, 111</p> <p>Grade 3 Teacher's Guide: pages 4, 5, 10, 11</p> <p>Grade 3 Skills Workbook: pages 3, 4, 9, 10, 11, 12, 19, 20, 91, 92</p> <p>See also: Grade 4 Student Book: pages 14, 15, 16, 17, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 180, 181, 182, 183</p> <p>Grade 4 Teacher's Guide: pages 5, 6, 9, 10, 11, 12, 72, 73</p> <p>Grade 4 Skills Workbook: pages 5, 6, 9, 10, 11, 12, 72, 73</p> <p>Grade 5 Student Book: pages 10, 11, 12, 13, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31</p> <p>Grade 5 Teacher's Guide: pages 4, 5, 10, 11, 12, 13</p> <p>Grade 5 Skills Workbook: pages 3, 4, 9, 10, 11, 12</p>
b. Choose appropriate units of measurement for length, weight/mass, and capacity/volume.	<p>Grade 3 Student Book: pages 8, 9, 10, 11, 12, 13, 22, 23, 24, 25, 26, 27, 106, 107, 108, 109, 110, 111</p> <p>Grade 3 Teacher's Guide: pages 4, 5, 10, 11</p> <p>Grade 3 Skills Workbook: pages 3, 4, 9, 10, 11, 12, 19, 20, 91, 92</p> <p>See also: Grade 4 Student Book: pages 14, 15, 16, 17, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 180, 181, 182, 183</p> <p>Grade 4 Teacher's Guide: pages 5, 6, 9, 10, 11, 12, 72, 73</p> <p>Grade 4 Skills Workbook: pages 5, 6, 9, 10, 11, 12, 72, 73</p> <p>Grade 5 Student Book: pages 10, 11, 12, 13, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31</p> <p>Grade 5 Teacher's Guide: pages 4, 5, 10, 11, 12, 13</p> <p>Grade 5 Skills Workbook: pages 3, 4, 9, 10, 11, 12</p>
c. Convert between pints, quarts, and gallons.	<p>See: Grade 4 Student Book: pages 180, 181, 182, 183</p> <p>Grade 4 Teacher's Guide: pages 72, 73</p>
d. Convert miles to feet and yards.	This concept is not covered at this level.
e. Compare metric measurements to English measurements.	This concept is not covered at this level.

Grade 3	
Competency: 7. Develop the process of measurement and related concepts. (CONT.)	
Objectives for Competency 7	
f. Using different types of instruments measure: <ul style="list-style-type: none"> Length in millimeters, meters, and kilometers. Mass in grams and kilograms. Capacity/volume in milliliters and liters. Time to the nearest minute. Temperature in Celsius and Fahrenheit. 	<p>Grade 3 Student Book: pages 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 22, 23, 24, 25, 26, 26, 106, 107, 108, 109, 110, 111</p> <p>Grade 3 Teacher's Guide: pages 4, 5, 6, 7, 10, 11</p> <p>Grade 3 Skills Workbook: pages 3, 4, 5, 6, 9, 10, 11, 12, 91, 92</p> <p>See also: Grade 4 Student Book: pages 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183</p> <p>Grade 4 Teacher's Guide: pages 4, 5, 6, 7, 10, 11, 12, 13, 70, 71, 72, 73</p> <p>Grade 4 Skills Workbook: pages 3, 4, 5, 6, 9, 10, 69, 70</p> <p>Grade 5 Student Book: pages 10, 11, 12, 13, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 80, 81, 82, 83, 84, 85</p> <p>Grade 5 Teacher's Guide: pages 4, 5, 10, 11, 12, 13, 34, 35</p> <p>Grade 5 Skills Workbook: pages 3, 4, 9, 10, 11, 12, 33, 34</p>
g. Use manipulatives and gridded regions to determine area of shapes.	This concept is not covered at this level.

Grade 4	
Competency: 1. Investigate the ability of living things to adapt to their environment.	
Objectives for Competency 1	
a. Compare food chains and food webs.	<p>Grade 4 Student Book: pages 68, 69, 70, 71</p> <p>Grade 4 Teacher's Guide: pages 28, 29</p> <p>Grade 4 Skills Workbook: pages 27, 28</p> <p>See also: Grade 5 Student Book: pages 174, 175, 176, 177</p> <p>Grade 5 Teacher's Guide: pages 70, 71</p>
b. Compare and contrast adaptations necessary for animals and plants to survive in different habitats.	<p>Grade 4 Student Book: pages 100, 101, 102, 103</p> <p>Grade 4 Teacher's Guide: pages 42, 43</p> <p>Grade 4 Skills Workbook: pages 41, 42</p> <p>See also: Grade 3 Student Book: pages 60, 61, 62, 63, 82, 83, 84, 85, 86, 87, 174, 175, 176, 177</p> <p>Grade 3 Teacher's Guide: pages 24, 25, 34, 35, 70, 71</p> <p>Grade 3 Skills Workbook: pages 15, 16, 23, 24, 27, 28, 41, 42</p> <p>Grade 5 Student Book: pages 38, 39, 40, 41, 110, 111, 112, 113, 114, 115, 194, 195, 196, 198</p> <p>Grade 5 Teacher's Guide: pages 16, 17, 46, 47, 78, 79</p> <p>Grade 5 Skills Workbook: pages 15, 16, 45, 46, 77, 78</p>

Grade 4	
Competency: 2. Explore the interactions of components in living systems.	
Objectives for Competency 2	
a. Identify parts and basic functions of various body systems (circulatory, respiratory, digestive, skeletal, and nervous systems).	See: Grade 3 Student Book: pages 122, 123, 124, 125, 126, 127 Grade 3 Teacher's Guide: pages 50, 51 Grade 3 Skills Workbook: pages 49, 50 Grade 5 Student Book: pages 54, 55, 56, 57, 188, 189, 190, 191, 192, 193 Grade 5 Teacher's Guide: pages 22, 23, 76, 77 Grade 5 Skills Workbook: pages 21, 22, 75, 76
b. Analyze the circulatory system.	See: Grade 3 Skills Workbook: pages 49, 50
c. Group animals as invertebrates or vertebrates.	Grade 4 Student Book: pages 184, 185, 186, 187, 188, 189 Grade 4 Teacher's Guide: pages 74, 75 See also: Grade 3 Student Book: pages 102, 103, 104, 105 Grade 3 Teacher's Guide: pages 42, 43 Grade 3 Skills Workbook: pages 41, 42 Grade 5 Student Book: pages 96, 97, 98, 99, 100, 101, 116, 117, 118, 119, 194, 195, 196, 197 Grade 5 Teacher's Guide: pages 40, 41, 48, 49, 78, 79 Grade 5 Skills Workbook: pages 39, 40, 47, 48, 77, 78
d. Explore the four requirements necessary for photosynthesis.	Grade 4 Teacher's Guide: pages 42, 43 See also: Grade 3 Skills Workbook: pages 31, 32
e. Compare and contrast flowering and non-flowering plants.	See: Grade 3 Skills Workbook: pages 51, 52

Grade 4	
Competency: 3. Communicate an understanding of the interactions of bodies in the solar system.	
Objectives for Competency 3	
a. Explain why the apparent size of an object depends on its distance from the observer.	<p>See: Grade 3 Student Book: pages 50, 51, 52, 53, 54, 55</p> <p>Grade 3 Teacher's Guide: pages 20, 21</p> <p>Grade 5 Student Book: pages 50, 51, 52, 53, 102, 103, 104, 105</p> <p>Grade 5 Teacher's Guide: pages 20, 21, 42, 43</p> <p>Grade 5 Skills Workbook: pages 19, 20, 41, 42</p>
b. Describe the interaction between the Earth, Sun, and Earth's moon, and planets of the solar system.	<p>Grade 4 Student Book: pages 54, 55, 56, 57</p> <p>Grade 4 Teacher's Guide: pages 22, 23</p> <p>Grade 4 Skills Workbook: pages 21, 22</p> <p>See also: Grade 3 Student Book: pages 42, 43, 44, 45, 46, 47</p> <p>Grade 3 Teacher's Guide: pages 18, 19, 20, 21</p> <p>Grade 3 Skills Workbook: pages 19, 20</p> <p>Grade 5 Student Book: pages 102, 103, 104, 105</p> <p>Grade 5 Teacher's Guide: pages 42, 43</p> <p>Grade 5 Skills Workbook: pages 41, 42</p>
c. Describe the apparent motion of constellations in the night sky (east to west throughout the night, east to west throughout the year).	<p>See: Grade 3 Student Book: pages 20, 21</p> <p>Grade 5 Student Book: pages 50, 51, 52, 53, 102, 103, 104, 105</p> <p>Grade 5 Teacher's Guide: pages 20, 21, 42, 43</p> <p>Grade 5 Skills Workbook: pages 19, 20, 41, 42</p>

Grade 4	
Competency: 4. Identify and describe the visual and telescopic appearance of plants and moons.	
Objectives for Competency 4	
a. Locate and identify planets as bright, shining bodies that move in front of the background constellations.	<p>Grade 4 Student Book: pages 54, 55, 56, 57</p> <p>Grade 4 Teacher's Guide: pages 22, 23</p> <p>Grade 4 Skills Workbook: pages 21, 22</p> <p>See also: Grade 3 Student Book: pages 50, 51, 52, 53, 54, 55</p> <p>Grade 3 Teacher's Guide: pages 20, 21</p> <p>Grade 3 Skills Workbook: pages 19, 20</p> <p>Grade 5 Student Book: pages 102, 103, 104, 105</p> <p>Grade 5 Teacher's Guide: pages 42, 43</p> <p>Grade 5 Skills Workbook: pages 41, 42</p>
b. Explain the nature of telescopes as devices that collect light and enlarge the apparent size of distant objects to reveal otherwise unseen features.	<p>Grade 4 Student Book: pages 148, 149, 150, 151, 152, 152</p> <p>Grade 4 Teacher's Guide: pages 60, 61</p>
c. Describe the physical features of the moon (craters, plains, mountains) and the planets.	<p>See: Grade 3 Student Book: pages 50, 51, 52, 53, 54, 55</p> <p>Grade 3 Teacher's Guide: pages 18, 19</p>

Grade 4	
Competency: 5. Discover the effects of external forces on the Earth's surface.	
Objectives for Competency 5	
a. Describe how external forces including heat, wind, and water affect the Earth's surface.	<p>Grade 4 Student Book: pages 4, 5, 6, 7, 82, 83, 84, 85, 100, 101, 102, 103, 120, 121, 122, 123, 124, 125, 136, 137, 138, 139, 140, 141</p> <p>Grade 4 Teacher's Guide: pages 2, 3, 34, 35, 42, 43, 50, 51, 56, 57</p> <p>Grade 4 Skills Workbook: pages 1, 2, 29, 30, 33, 34</p> <p>See also: Grade 3 Student Book: pages 32, 33, 34, 35, 36, 37, 88, 89, 90, 91, 178, 179, 180, 181</p> <p>Grade 3 Teacher's Guide: pages 14, 15, 36, 37, 72, 73</p> <p>Grade 3 Skills Workbook: pages 35, 36, 71, 72</p> <p>Grade 5 Student Book: pages 166, 167, 168, 169</p> <p>Grade 5 Teacher's Guide: pages 66, 67</p> <p>Grade 5 Skills Workbook: pages 65, 66</p>
b. Using maps, students identify watershed and run-off patterns of local areas.	<p>Grade 4 Student Book: pages 198, 199, 200, 201</p> <p>Grade 4 Teacher's Guide: pages 80, 81</p> <p>Grade 4 Skills Workbook: pages 79, 80</p> <p>See also: Grade 3 Skills Workbook: pages 29, 30, 71, 72</p>
c. Group landforms examples by the forces that may have created them.	<p>Grade 4 Student Book: pages 120, 121, 122, 123, 124, 125, 136, 137, 138, 139, 140, 141, 198, 199, 200, 201</p> <p>Grade 4 Teacher's Guide: pages 50, 51, 56, 57, 80, 81</p> <p>Grade 4 Skills Workbook: pages 79, 80</p> <p>See also: Grade 3 Student Book: pages 196, 197, 198, 199, 200, 201</p> <p>Grade 3 Teacher's Guide: pages 72, 73, 80, 81</p> <p>Grade 3 Skills Workbook: pages 35, 36, 71, 72, 79, 80</p>

Grade 4	
Competency: 6. Explore changes that occur in the Earth’s atmosphere.	
Objectives for Competency 6	
a. Analyze and predict the weather using the thermometer, anemometer, rain gauge, barometer, and hygrometer.	<p>Grade 4 Student Book: pages 8, 9, 10, 11, 12, 13, 174, 175, 176, 177, 178, 179, 190, 191, 192, 193</p> <p>Grade 4 Teacher’s Guide: pages 4, 5, 70, 71, 76, 77</p> <p>Grade 4 Skills Workbook: pages 3, 4, 69, 70, 75, 76</p> <p>See also: Grade 3 Student Book: pages 106, 107, 108, 109, 110, 111</p> <p>Grade 3 Teacher’s Guide: pages 44, 45</p> <p>Grade 3 Skills Workbook: pages 43, 44</p> <p>Grade 5 Student Book: pages 4, 5, 6, 7, 8, 9, 80, 81, 82, 83, 84, 85</p> <p>Grade 5 Teacher’s Guide: pages 2, 3, 34, 35</p> <p>Grade 5 Skills Workbook: pages 1, 2, 33, 34</p>
b. Recognize and collect data of extreme weather conditions.	<p>Grade 4 Student Book: pages 8, 9, 10, 11, 12, 13, 174, 175, 176, 177, 178, 179, 190, 191, 192, 193</p> <p>Grade 4 Teacher’s Guide: pages 4, 5</p> <p>Grade 4 Skills Workbook: pages 3, 4, 69, 70, 75, 76</p> <p>See also: Grade 3 Student Book: pages 106, 107, 108, 109, 110, 111</p> <p>Grade 3 Teacher’s Guide: pages 44, 45</p> <p>Grade 5 Student Book: pages 4, 5, 6, 7, 8, 9, 32, 33, 34, 35, 36, 37, 80, 81, 82, 83, 84, 85</p> <p>Grade 5 Teacher’s Guide: pages 2, 3, 14, 15, 34, 35</p> <p>Grade 5 Skills Workbook: pages 1, 2, 13, 14, 33, 34</p>

Grade 4	
Competency: 7. Discover how environmental concerns relate to the hydrosphere, lithosphere, and atmosphere.	
Objectives for Competency 7	
a. Describe ways to protect the air we breathe.	<p>Grade 4 Student Book: pages 72, 73, 74, 75, 76, 77, 104, 105, 106, 107</p> <p>Grade 4 Teacher's Guide: pages 30, 31, 44, 45</p> <p>See also: Grade 3 Teacher's Guide: page 69</p> <p>Grade 3 Skills Workbook: pages 67, 68</p> <p>Grade 5 Student Book: pages 32, 33, 34, 35, 36, 37, 124, 125, 126, 127</p> <p>Grade 5 Teacher's Guide: pages 14, 15, 52, 53</p> <p>Grade 5 Skills Workbook: pages 13, 14, 51, 52</p>
b. Recognize the need for conservation of water resources.	<p>Grade 4 Student Book: pages 180, 181, 182, 183</p> <p>Grade 4 Teacher's Guide: pages 72, 73</p> <p>Grade 4 Skills Workbook: pages 71, 72</p> <p>See also: Grade 3 Teacher's Guide: page 69</p> <p>Grade 3 Skills Workbook: pages 67, 68</p> <p>Grade 5 Student Book: pages 32, 33, 34, 35, 36, 37, 120, 121, 122, 123, 124, 125, 126, 127</p> <p>Grade 5 Teacher's Guide: pages 14, 15, 50, 51, 52, 53</p> <p>Grade 5 Skills Workbook: pages 13, 14, 49, 50, 51, 52</p>
c. Discuss the ways man can protect and manage organisms in the environment.	<p>Grade 4 Student Book: pages 62, 63, 64, 65, 66, 67, 104, 105, 106, 107, 154, 155, 156, 157, 158, 159, 166, 167, 168, 169</p> <p>Grade 4 Teacher's Guide: pages 26, 27, 44, 45, 62, 63, 66, 67</p> <p>Grade 4 Skills Workbook: pages 43, 44</p> <p>See also: Grade 3 Teacher's Guide: pages 16, 17</p> <p>Grade 5 Student Book: pages 62, 63, 64, 65, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79</p> <p>Grade 5 Teacher's Guide: pages 26, 27, 30, 31, 32, 33</p> <p>Grade 5 Skills Workbook: pages 25, 26, 29, 30, 31, 32</p>

Grade 4	
Competency: 8. Investigate the changes in the states of matter.	
Objectives for Competency 8	
a. Observe that matter occupies space and has mass and volume.	<p>See: Grade 3 Student Book: pages 8, 9, 10, 11, 12, 13</p> <p>Grade 3 Teacher's Guide: pages 4, 5</p> <p>Grade 5 Student Book: pages 10, 11, 12, 13</p> <p>Grade 5 Teacher's Guide: pages 4, 5</p> <p>Grade 5 Skills Workbook: pages 3, 4</p>
b. Demonstrate transformations of the states of matter.	<p>Grade 4 Student Book: pages 132, 133, 134, 135</p> <p>Grade 4 Teacher's Guide: pages 54, 55</p> <p>Grade 4 Skills Workbook: pages 53, 54</p> <p>See also: Grade 3 Student Book: pages 18, 19, 20, 21</p> <p>Grade 3 Teacher's Guide: pages 8, 9</p> <p>Grade 3 Skills Workbook: pages 7, 8</p> <p>Grade 5 Student Book: pages 42, 43, 44, 45, 46, 47</p> <p>Grade 5 Teacher's Guide: pages 18, 19</p> <p>Grade 5 Skills Workbook: pages 17, 18</p>
c. Explore and classify physical and chemical changes.	<p>See: Grade 3 Student Book: pages 18, 19, 20, 21, 136, 137, 138, 139</p> <p>Grade 3 Teacher's Guide: pages 8, 9, 56, 57</p> <p>Grade 3 Skills Workbook: pages 7, 8, 55, 56, 75, 76</p> <p>Grade 5 Student Book: pages 14, 15, 16, 17, 42, 43, 44, 45, 46, 47</p> <p>Grade 5 Teacher's Guide: pages 8, 9, 18, 19</p> <p>Grade 5 Skills Workbook: pages 7, 8, 17, 18</p>

Grade 4	
Competency: 9. Examine the different forms of energy.	
Objectives for Competency 9	
a. Differentiate energy as potential or kinetic.	Grade 4 Skills Workbook: pages 69, 70
b. Identify and explore forms of energy such as heat, sound, light, or electricity.	Grade 4 Student Book: pages 18, 19, 20, 21, 120, 121, 122, 123, 124, 125, 194, 195, 196, 197 Grade 4 Teacher's Guide: pages 8, 9, 50, 51, 78, 79 Grade 4 Skills Workbook: pages 7, 8, 77, 78 See also: Grade 3 Student Book: pages 64, 65, 66, 67, 146, 147, 148, 149, 150, 151 Grade 3 Teacher's Guide: pages 26, 27, 60, 61 Grade 3 Skills Workbook: pages 25, 26 Grade 5 Student Book: pages 106, 107, 108, 109 Grade 5 Teacher's Guide: pages 44, 45 Grade 5 Skills Workbook: pages 43, 44
c. Demonstrate the use of the sun as an energy source.	See: Grade 3 Student Book: pages 18, 19, 20, 21 Grade 3 Teacher's Guide: pages 8, 9 Grade 3 Skills Workbook: pages 7, 8 Grade 5 Student Book: pages 106, 107, 108, 109 Grade 5 Teacher's Guide: pages 44, 45 Grade 5 Skills Workbook: pages 43, 44

Grade 4	
Competency: 10. Develop the process of measurement and the concepts related to units of measurement.	
Objectives for Competency 10	
a. Measure a given object using specified scientific measurement (English and/or metric).	<p>Grade 3 Student Book: pages 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 22, 23, 24, 25, 26, 26, 106, 107, 108, 109, 110, 111</p> <p>Grade 3 Teacher's Guide: pages 4, 5, 6, 7, 10, 11</p> <p>Grade 3 Skills Workbook: pages 3, 4, 5, 6, 9, 10, 11, 12, 91, 92</p> <p>See also: Grade 4 Student Book: pages 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183</p> <p>Grade 4 Teacher's Guide: pages 4, 5, 6, 7, 10, 11, 12, 13, 70, 71, 72, 73</p> <p>Grade 4 Skills Workbook: pages 3, 4, 5, 6, 9, 10, 69, 70</p> <p>Grade 5 Student Book: pages 10, 11, 12, 13, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 80, 81, 82, 83, 84, 85</p> <p>Grade 5 Teacher's Guide: pages 4, 5, 10, 11, 12, 13, 34, 35</p> <p>Grade 5 Skills Workbook: pages 3, 4, 9, 10, 11, 12, 33, 34</p>
b. Select, use, compare and convert within the appropriate standard (English and/or metric) system of measurement.	<p>Grade 3 Student Book: pages 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 22, 23, 24, 25, 26, 26, 106, 107, 108, 109, 110, 111</p> <p>Grade 3 Teacher's Guide: pages 4, 5, 6, 7, 10, 11</p> <p>Grade 3 Skills Workbook: pages 3, 4, 5, 6, 9, 10, 11, 12, 91, 92</p> <p>See also: Grade 4 Student Book: pages 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183</p> <p>Grade 4 Teacher's Guide: pages 4, 5, 6, 7, 10, 11, 12, 13, 70, 71, 72, 73</p> <p>Grade 4 Skills Workbook: pages 3, 4, 5, 6, 9, 10, 69, 70</p> <p>Grade 5 Student Book: pages 10, 11, 12, 13, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 80, 81, 82, 83, 84, 85</p> <p>Grade 5 Teacher's Guide: pages 4, 5, 10, 11, 12, 13, 34, 35</p> <p>Grade 5 Skills Workbook: pages 3, 4, 9, 10, 11, 12, 33, 34</p>
c. Identify the attributes of length, weight, capacity/volume, mass, time and temperature using English and metric units of measurement.	<p>Grade 3 Student Book: pages 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 22, 23, 24, 25, 26, 26, 106, 107, 108, 109, 110, 111</p> <p>Grade 3 Teacher's Guide: pages 4, 5, 6, 7, 10, 11</p> <p>Grade 3 Skills Workbook: pages 3, 4, 5, 6, 9, 10, 11, 12, 91, 92</p> <p>See also: Grade 4 Student Book: pages 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183</p> <p>Grade 4 Teacher's Guide: pages 4, 5, 6, 7, 10, 11, 12, 13, 70, 71, 72, 73</p> <p>Grade 4 Skills Workbook: pages 3, 4, 5, 6, 9, 10, 69, 70</p> <p>Grade 5 Student Book: pages 10, 11, 12, 13, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 80, 81, 82, 83, 84, 85</p> <p>Grade 5 Teacher's Guide: pages 4, 5, 10, 11, 12, 13, 34, 35</p> <p>Grade 5 Skills Workbook: pages 3, 4, 9, 10, 11, 12, 33, 34</p>

Grade 5	
Competency: 1. Identify and describe structures and functions in living systems.	
Objectives for Competency 1	
a. Investigate levels of organization in organisms including cells, tissues, organs, organ systems, whole organisms, and ecosystems.	<p>Grade 5 Student Book: pages 54, 55, 56, 57, 174, 175, 176, 177, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197</p> <p>Grade 5 Teacher's Guide: pages 22, 23, 70, 71, 76, 77, 78, 79</p> <p>Grade 5 Skills Workbook: pages 21, 22, 69, 70, 75, 76, 77, 78</p> <p>See also: Grade 3 Student Book: pages 122, 123, 124, 125, 126, 127, 182, 183, 184, 185, 186, 187</p> <p>Grade 3 Teacher's Guide: pages 42, 43, 50, 51, 74, 75</p> <p>Grade 3 Skills Workbook: pages 49, 50, 73, 74</p> <p>Grade 4 Student Book: pages 42, 43, 44, 45, 46, 47, 68, 69, 70, 71, 198, 199, 200, 201</p> <p>Grade 4 Teacher's Guide: pages 18, 19, 28, 29, 80, 81</p> <p>Grade 4 Skills Workbook: pages 27, 28</p>
b. Explore ecosystems and biomes.	<p>Grade 5 Student Book: pages 62, 63, 64, 65, 100, 101, 102, 103, 104, 105, 194, 195, 196, 197</p> <p>Grade 5 Teacher's Guide: pages 26, 27, 46, 47, 78, 79</p> <p>Grade 5 Skills Workbook: pages 25, 26, 45, 46, 77, 78</p> <p>See also: Grade 3 Student Book: pages 60, 61, 62, 63, 74, 75, 76, 77</p> <p>Grade 3 Teacher's Guide: pages 24, 25, 30, 31</p> <p>Grade 3 Skills Workbook: pages 23, 24, 29, 30</p> <p>Grade 4 Student Book: pages 14, 15, 16, 17, 62, 63, 64, 65, 66, 67, 94, 95, 96, 97, 100, 101, 102, 103, 198, 199, 200, 201</p> <p>Grade 4 Teacher's Guide: pages 6, 7, 26, 27, 40, 41, 42, 43, 80, 81</p> <p>Grade 4 Skills Workbook: pages 25, 26, 41, 42, 65, 66, 79, 80</p>

Grade 5	
Competency: 2. Identify and describe reproduction and heredity of organisms.	
Objectives for Competency 2	
a. Define and recognize examples of sexual and asexual reproduction.	<p>Grade 5 Student Book: pages 18, 19, 20, 21</p> <p>Grade 5 Teacher's Guide: pages 8, 9</p> <p>See also: Grade 3 Skills Workbook: pages 51, 52</p>
b. Explore how traits are used to classify individual inheritance patterns.	<p>Grade 5 Student Book: pages 116, 117, 118, 119, 142, 143, 144, 145, 146, 147</p> <p>Grade 5 Teacher's Guide: pages 48, 49, 58, 59</p> <p>Grade 5 Skills Workbook: pages 47, 48, 57, 58</p>

Grade 5	
Competency: 3. Determine the factors that influence the regulation and behavior of organisms.	
Objectives for Competency 3	
a. Identify and describe resources needed to grow, reproduce, maintain, and survive in a changing environment.	<p>Grade 5 Student Book: pages 38, 39, 40, 41, 76, 77, 78, 79, 110, 111, 112, 113, 114, 115, 142, 143, 144, 145, 146, 147</p> <p>Grade 5 Teacher's Guide: pages 16, 17, 32, 33, 46, 47, 58, 59</p> <p>Grade 5 Skills Workbook: pages 15, 16, 31, 32, 45, 46, 57, 58</p> <p>See also: Grade 3 Student Book: pages 166, 167, 168, 169</p> <p>Grade 3 Teacher's Guide: pages 66, 67</p> <p>Grade 3 Skills Workbook: pages 27, 28, 51, 52</p> <p>Grade 4 Student Book: pages 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 42, 43, 44, 45, 46, 47, 62, 63, 64, 65, 66, 67, 94, 95, 96, 97, 100, 101, 102, 103</p> <p>Grade 4 Teacher's Guide: pages 12, 13, 14, 15, 18, 19, 26, 27, 40, 41, 42, 43</p> <p>Grade 4 Skills Workbook: pages 11, 12, 13, 14</p>
b. Investigate ways organisms adapt to their environment.	<p>Grade 5 Student Book: pages 96, 97, 98, 99, 100, 101, 110, 111, 112, 113, 114, 115, 142, 143, 144, 145, 146, 147, 194, 195, 196, 197</p> <p>Grade 5 Teacher's Guide: pages 40, 41, 46, 47, 58, 59, 78, 79</p> <p>Grade 5 Skills Workbook: pages 39, 40, 45, 46, 57, 58, 77, 78</p> <p>See also: Grade 3 Student Book: pages 68, 69, 70, 71, 72, 73</p> <p>Grade 3 Teacher's Guide: pages 28, 29</p> <p>Grade 3 Skills Workbook: pages 15, 16, 23, 24, 29, 30, 43, 44</p> <p>Grade 4 Student Book: pages 38, 39, 40, 41, 100, 101, 102, 103</p> <p>Grade 4 Teacher's Guide: pages 16, 17</p> <p>Grade 4 Skills Workbook: pages 15, 16, 41, 42</p>

Grade 5	
Competency: 4. Examine the physical factors or populations as they relate to the formation of an ecosystem.	
Objectives for Competency 4	
a. Identify, describe, and illustrate the roles among producers, consumers, and decomposers in a food web.	<p>Grade 5 Student Book: pages 96, 97, 98, 99, 100, 101, 174, 175, 176, 177</p> <p>Grade 5 Teacher's Guide: pages 40, 41, 70, 71</p> <p>Grade 5 Skills Workbook: pages 69, 70</p> <p>See also: Grade 3 Student Book: pages 68, 69, 70, 71, 72, 73</p> <p>Grade 3 Teacher's Guide: pages 28, 29</p> <p>Grade 3 Skills Workbook: pages 23, 24, 27, 28</p> <p>Grade 4 Student Book: pages 14, 15, 16, 17, 42, 43, 44, 45, 46, 47, 68, 69, 70, 71</p> <p>Grade 4 Teacher's Guide: pages 6, 7, 18, 19, 28, 29</p> <p>Grade 4 Skills Workbook: pages 27, 28</p>
b. Investigate resources and other factors (living and nonliving) that promote and limit growth of populations in an ecosystem.	<p>Grade 5 Student Book: pages 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 62, 63, 64, 65, 76, 77, 78, 79, 110, 111, 112, 113, 114, 115, 174, 175, 176, 177</p> <p>Grade 5 Teacher's Guide: pages 14, 15, 16, 17, 26, 27, 32, 33, 46, 47, 70, 71</p> <p>Grade 5 Skills Workbook: pages 13, 14, 15, 16, 25, 26, 31, 32, 45, 46, 69, 70</p> <p>See also: Grade 3 Student Book: pages 74, 75, 76, 77</p> <p>Grade 3 Teacher's Guide: pages 30, 31</p> <p>Grade 3 Skills Workbook: pages 15, 16, 23, 24, 27, 28, 29, 30</p> <p>Grade 4 Student Book: pages 32, 33, 34, 35, 36, 37, 62, 63, 64, 65, 66, 67, 94, 95, 96, 97, 100, 101, 102, 103, 104, 105, 106, 107, 154, 155, 156, 157, 158, 159, 166, 167, 168, 169, 198, 199, 200, 201</p> <p>Grade 4 Teacher's Guide: pages 14, 15, 26, 27, 40, 41, 42, 43, 44, 45, 62, 63, 66, 67, 80, 81</p> <p>Grade 4 Skills Workbook: pages 13, 14, 41, 42</p>

Grade 5	
Competency: 5. Explore the diversity and adaptations of organisms.	
Objectives for Competency 5	
a. Classify organisms by their similarities.	<p>Grade 5 Student Book: pages 96, 97, 98, 99, 100, 101, 116, 117, 118, 119, 194, 195, 196, 197</p> <p>Grade 5 Teacher's Guide: pages 40, 41, 48, 49, 78, 79</p> <p>Grade 5 Skills Workbook: pages 39, 40, 47, 48, 77, 78</p> <p>See also: Grade 3 Student Book: pages 102, 103, 104, 105, 132, 133, 134, 135</p> <p>Grade 3 Teacher's Guide: pages 42, 43, 54, 55</p> <p>Grade 3 Skills Workbook: pages 15, 16, 41, 42, 53, 54</p> <p>Grade 4 Student Book: pages 114, 115, 116, 117, 118, 119, 184, 185, 186, 187, 188, 189</p> <p>Grade 4 Teacher's Guide: pages 74, 75</p> <p>Grade 4 Skills Workbook: pages 73, 74</p>
b. Explore and explain biological adaptations in a particular environment.	<p>Grade 5 Student Book: pages 32, 33, 34, 35, 36, 37, 70, 71, 72, 73, 74, 75, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 194, 195, 196, 197</p> <p>Grade 5 Teacher's Guide: pages 14, 15, 30, 31, 46, 47, 48, 49, 78, 79</p> <p>Grade 5 Skills Workbook: pages 13, 14, 29, 30, 45, 46, 47, 48, 77, 78</p> <p>See also: Grade 3 Student Book: pages 60, 61, 62, 63</p> <p>Grade 3 Teacher's Guide: pages 24, 25, 34, 35</p> <p>Grade 3 Skills Workbook: pages 15, 16, 23, 24</p> <p>Grade 4 Student Book: pages 62, 63, 64, 65, 66, 67, 100, 101, 102, 103</p> <p>Grade 4 Teacher's Guide: pages 26, 27, 42, 43</p> <p>Grade 4 Skills Workbook: pages 41, 42</p>
c. Research and investigate environmental changes and the inability of a species to adapt.	<p>Grade 5 Student Book: pages 32, 33, 34, 35, 36, 37, 62, 63, 64, 65, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79</p> <p>Grade 5 Teacher's Guide: pages 14, 15, 26, 27, 30, 31, 32, 33</p> <p>Grade 5 Skills Workbook: pages 13, 14, 25, 26, 29, 30, 31, 32</p> <p>See also: Grade 3 Skills Workbook: pages 15, 16, 23, 24</p> <p>Grade 4 Student Book: pages 62, 63, 64, 65, 66, 67, 104, 105, 106, 107, 166, 167, 168, 169, 197, 198, 200, 201</p> <p>Grade 4 Teacher's Guide: pages 26, 27, 44, 45, 66, 67, 80, 81</p> <p>Grade 4 Skills Workbook: pages 65, 66</p>

Grade 5	
Competency: 6. Investigate the structure of the Earth.	
Objectives for Competency 6	
a. Investigate the structure of the atmosphere (gas-air), hydrosphere (liquid water), and lithosphere (solid-land).	<p>Grade 5 Student Book: pages 32, 33, 34, 35, 36, 37, 166, 167, 168, 169</p> <p>Grade 5 Teacher's Guide: pages 14, 15, 66, 67</p> <p>Grade 5 Skills Workbook: pages 13, 14, 65, 66</p> <p>See also: Grade 3 Student Book: pages 4, 5, 6, 7, 178, 179, 180, 181, 196, 197, 198, 199, 200, 201</p> <p>Grade 3 Teacher's Guide: pages 2, 3, 72, 73</p> <p>Grade 3 Skills Workbook: pages 1, 2, 7, 8, 35, 36, 71, 72, 75, 76, 79, 80</p> <p>Grade 4 Student Book: pages 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 62, 63, 64, 65, 66, 67, 100, 101, 102, 103, 108, 109, 110, 111, 112, 113, 120, 121, 122, 123, 124, 125, 136, 137, 138, 139, 140, 141</p> <p>Grade 4 Teacher's Guide: pages 2, 3, 4, 5, 26, 27, 42, 43, 46, 47, 50, 51, 56, 57</p> <p>Grade 4 Skills Workbook: pages 1, 2, 3, 4, 25, 26</p>
b. Examine how organisms affect the composition of the Earth and its atmosphere.	<p>Grade 5 Student Book: pages 32, 33, 34, 35, 36, 37, 110, 111, 112, 113, 114, 115</p> <p>Grade 5 Teacher's Guide: pages 14, 15, 46, 47</p> <p>Grade 5 Skills Workbook: pages 13, 14, 45, 46</p> <p>See also: Grade 3 Student Book: pages 188, 189, 190, 191</p> <p>Grade 3 Teacher's Guide: pages 76, 77</p> <p>Grade 3 Skills Workbook: pages 75, 76</p> <p>Grade 4 Student Book: pages 14, 15, 16, 17, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 100, 101, 102, 103, 154, 155, 156, 157, 158, 159</p> <p>Grade 4 Teacher's Guide: pages 6, 7, 26, 27, 28, 29, 42, 43, 62, 63</p> <p>Grade 4 Skills Workbook: pages 27, 28</p>
c. Analyze processes that cause changes on Earth.	<p>Grade 5 Student Book: pages 32, 33, 34, 35, 36, 37, 62, 63, 64, 65, 166, 167, 168, 169</p> <p>Grade 5 Teacher's Guide: pages 14, 15, 26, 27, 66, 67</p> <p>Grade 5 Skills Workbook: pages 13, 14, 25, 26, 65, 66</p> <p>See also: Grade 3 Student Book: pages 32, 33, 34, 35, 36, 37, 88, 89, 90, 91, 178, 179, 180, 181, 188, 189, 190, 191, 196, 197, 198, 199, 200, 201</p> <p>Grade 3 Teacher's Guide: pages 14, 15, 36, 37, 72, 73, 76, 77, 80, 81</p> <p>Grade 3 Skills Workbook: pages 35, 36, 71, 72, 75, 76, 79, 80</p> <p>Grade 4 Student Book: pages 4, 5, 6, 7, 82, 83, 84, 85, 136, 137, 138, 139, 140, 141</p> <p>Grade 4 Teacher's Guide: pages 2, 3, 34, 35, 56, 57</p> <p>Grade 4 Skills Workbook: pages 1, 2, 33, 34</p>

Grade 5	
Competency: 6. Investigate the structure of the Earth. (CONT.)	
Objectives for Competency 6	
d. Explore fossils as indicators of how life and environmental conditions have changed.	<p>Grade 5 Student Book: pages 160, 161, 162, 163, 164, 165</p> <p>Grade 5 Teacher's Guide: pages 64, 65</p> <p>Grade 5 Skills Workbook: pages 63, 64</p> <p>See also: Grade 3 Student Book: pages 188, 189, 190, 191</p> <p>Grade 3 Teacher's Guide: pages 76, 77</p> <p>Grade 3 Skills Workbook: pages 53, 54, 75, 76</p>

Grade 5	
Competency: 7. Investigate the Earth as a part of the solar system.	
Objectives for Competency 7	
a. Explore how the Earth's motion defines the day and the year and influences the phases of the moon and eclipses.	<p>Grade 5 Student Book: pages 102, 103, 104, 105</p> <p>Grade 5 Teacher's Guide: pages 42, 43</p> <p>Grade 5 Skills Workbook: pages 41, 42</p> <p>See also: Grade 3 Student Book: pages 42, 43, 44, 45, 46, 47</p> <p>Grade 3 Teacher's Guide: pages 18, 19</p> <p>Grade 4 Student Book: pages 54, 55, 56, 57</p> <p>Grade 4 Teacher's Guide: pages 22, 23</p> <p>Grade 4 Skills Workbook: pages 21, 22</p>
b. Explain how gravity influences the action of the tides.	<p>See: Grade 3 Skills Workbook: pages 71, 72</p>
c. Explain and illustrate how the tilt of the Earth's axis and Earth's rotation around the Sun create the seasons.	This concept is not covered at this level.

Grade 5	
Competency: 8. Identify properties and changes of matter.	
Objectives for Competency 8	
a. Observe and explore physical and chemical properties such as density, boiling/freezing point, and solubility of a substance.	<p>Grade 5 Student Book: pages 14, 15, 16, 17, 42, 43, 44, 45, 46, 47</p> <p>Grade 5 Teacher's Guide: pages 6, 7, 18, 19</p> <p>Grade 5 Skills Workbook: pages 5, 6, 17, 18</p> <p>See also: Grade 3 Student Book: pages 18, 19, 20, 21, 112, 113, 114, 115, 116, 117, 136, 137, 138, 139</p> <p>Grade 3 Teacher's Guide: pages 8, 9, 46, 47, 56, 57</p> <p>Grade 3 Skills Workbook: pages 7, 8, 55, 56</p> <p>Grade 4 Student Book: pages 132, 133, 134, 135</p> <p>Grade 4 Teacher's Guide: pages 54, 55</p>
b. Explore, observe, discuss, and record physical and chemical changes using everyday substances.	<p>Grade 5 Student Book: pages 14, 15, 16, 17</p> <p>Grade 5 Teacher's Guide: pages 6, 7</p> <p>Grade 5 Skills Workbook: pages 5, 6</p> <p>See also: Grade 3 Student Book: pages 136, 137, 138, 139</p> <p>Grade 3 Teacher's Guide: pages 56, 57</p> <p>Grade 3 Skills Workbook: pages 55, 56</p> <p>Grade 4 Student Book: pages 132, 133, 134, 135</p> <p>Grade 4 Teacher's Guide: pages 54, 55</p>
c. Recognize elements that combine chemically to produce compounds.	This concept is not covered at this level.
d. Demonstrate the ability to use simple measuring devices using metric and English units.	<p>Grade 3 Student Book: pages 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 22, 23, 24, 25, 26, 26, 106, 107, 108, 109, 110, 111</p> <p>Grade 3 Teacher's Guide: pages 4, 5, 6, 7, 10, 11</p> <p>Grade 3 Skills Workbook: pages 3, 4, 5, 6, 9, 10, 11, 12, 91, 92</p> <p>See also: Grade 4 Student Book: pages 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183</p> <p>Grade 4 Teacher's Guide: pages 4, 5, 6, 7, 10, 11, 12, 13, 70, 71, 72, 73</p> <p>Grade 4 Skills Workbook: pages 3, 4, 5, 6, 9, 10, 69, 70</p> <p>Grade 5 Student Book: pages 10, 11, 12, 13, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 80, 81, 82, 83, 84, 85</p> <p>Grade 5 Teacher's Guide: pages 4, 5, 10, 11, 12, 13, 34, 35</p> <p>Grade 5 Skills Workbook: pages 3, 4, 9, 10, 11, 12, 33, 34</p>

Grade 5	
Competency: 9. Investigate the effect motions and forces have on objects.	
Objectives for Competency 9	
a. Explore, measure, and graph the motion of an object.	<p>Grade 5 Student Book: pages 26, 27, 28, 29, 30, 31</p> <p>Grade 5 Teacher's Guide: pages 12, 13</p> <p>Grade 5 Skills Workbook: pages 11, 12</p> <p>See also: Grade 3 Student Book: pages 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 174, 175, 176, 177</p> <p>Grade 3 Teacher's Guide: pages 10, 11, 12, 13, 70, 71</p> <p>Grade 3 Skills Workbook: pages 9, 10, 69, 70</p> <p>Grade 4 Student Book: pages 22, 23, 24, 25, 26, 27</p> <p>Grade 4 Teacher's Guide: pages 10, 11</p> <p>Grade 4 Skills Workbook: pages 9, 10, 69, 70</p>
b. Explore and measure the effect of force on an object.	<p>See: Grade 3 Student Book: pages 28, 29, 30, 31</p> <p>Grade 3 Teacher's Guide: pages 12, 13</p> <p>Grade 4 Skills Workbook: pages 69, 70</p>

Grade 5	
Competency: 10. Examine the transformations of forms of energy.	
Objectives for Competency 10	
a. Design and construct simple and compound machines.	<p>See: Grade 3 Student Book: pages 96, 97, 98, 99, 118, 119, 120, 121</p> <p>Grade 3 Teacher's Guide: pages 40, 41, 48, 49</p> <p>Grade 3 Skills Workbook: pages 39, 40, 47, 48</p> <p>Grade 4 Student Book: pages 142, 143, 144, 145, 146, 147</p> <p>Grade 4 Teacher's Guide: pages 20, 21, 58, 59</p> <p>Grade 4 Skills Workbook: pages 19, 20</p>
b. Design and construct electrical circuits (open, closed, series, parallel).	This concept is not covered at this level.
c. Design and construct an electromagnet.	This concept is not covered at this level.