

***SRA Snapshots Video Science™: Level A***  
**correlation to**  
**Nebraska Science Standards**  
**Grade 3**

*SRA Snapshots Video Science™* consists of four interdependent components. Each level has four program DVDs that provide engaging video lessons. The student edition (**SE**) provides student friendly text that reinforces the concepts introduced in the video. The Teacher’s Resource Book (**TRB**) provides support activities in a blackline master format. The Teacher’s Guide (**TG**) provides lesson planning, differentiated instruction activities, and answers to all student activities in the Student Edition.

**KEY:**

<b>Reference</b>	<b>Program Component</b>
<b>Video</b>	Video lessons on program DVDs
<b>SE</b>	Student Edition
<b>TRB</b>	Teacher’s Resource Book
<b>TG</b>	Teacher’s Guide

**4.1 UNIFYING CONCEPTS AND PROCESSES**

4.1.1 By the end of fourth grade, students will develop an understanding of systems, order, and organization.

- Describe the parts that make up a system.

**Chapter 1, Lesson 1, Video A, SE page 3; Video B, SE page 4; Video C, SE page 5; Lesson 3, Video A, SE page 17; Video B, SE page 18; Video C, SE page 19; Process Skill, SE page 21; LabTime Hands-On Activity 1, TRB pages 15-17, TG page 30**

**Chapter 2, Lesson 1, Video A, SE page 25; Video B, SE page 26; Video C, SE page 27; Lesson 2, Video A, SE page 31; Video B, SE page 32; Video C, SE page 33; Lesson 3, Video A, SE page 39; LabTime Hands-On Activity 2, TRB pages 33-35, TG page 48**

**Chapter 3, Lesson 1, Video A, SE page 47; Video B, SE page 48; Video C, SE page 49; Lesson 2, Video B, SE page 56; Video C, SE page 57; Lesson 3, Video B, SE page 62; LabTime Hands-On Activity 3, TRB pages 51-53, TG page 66**

**Chapter 4, Lesson, 1, Video B, SE page 70; Video C, SE page 71; Lesson 2, Video A, SE page 75; Video B, SE page 76; Video C, SE page 77; LabTime Hands-On Activity 4, TRB pages 69-71, TG page 84**

**Chapter 5, Lesson 1, Video A, SE page 91; Video B, SE page 92; Video C, SE page 93; Lesson 2, Video A, SE page 99; Video B, SE page 100; Video C, SE page 101; LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102**

**Chapter 6, Lesson 1, Video A, SE page 113; Video B, SE page 114; Video C, SE page 115; Lesson 2, Video A, SE page 119; Video B, SE page 120; Video C, SE page 121; Lesson 3, Video A, SE page 127; Video B, SE page 128; LabTime Hands-On Activity 6, TRB pages 105-107, TG page 120**

**Chapter 7, Lesson 1, Video A, SE page 135; Video B, SE page 136; Video C, SE page 137; Lesson 2, Video A, SE page 143; Video B, SE page 144; Video C, SE page 145; Lesson 3, Video A, SE page 149; Video B, SE page 150; Video C, SE page 151; LabTime Hands-On Activity 7, TRB pages 123-125, TG page 138**

**Chapter 8, Lesson 1, Video A, SE page 157; Video B, SE page 158; Video C, SE page 159; Lesson 2, Video A, SE page 163; Video B, SE page 164; Video C, SE page 165; Lesson 3, Video A, SE page 171; Video B, SE page 172; Video C, SE page 173; LabTime Hands-On Activity 8, TRB pages 141-143, TG page 156**

**Chapter 9, Lesson 1, Video A, SE page 179; Video B, SE page 180; Video C, SE page 181; Lesson 2, Video A, SE page 187; Video B, SE page 188; Video C, SE page 189; Lesson 3, Video A, SE page 193; Video B, SE page 194; LabTime Hands-On Activity 9, TRB pages 159-161, TG page 174**

**Energy Transfer, SE page 203**

**Planet Earth, SE page 204**

**Earth in Space, SE page 205**

4.1 UNIFYING CONCEPTS AND PROCESSES
4.1.1 By the end of fourth grade, students will develop an understanding of systems, order, and organization.
<ul style="list-style-type: none"> <li>Relate how the parts of a system affect the whole system.</li> </ul>
<p><b>Chapter 1, Lesson 1, Video A, SE page 3; Video B, SE page 4; Video C, SE page 5; Lesson 3, Video A, SE page 17; Video B, SE page 18; Video C, SE page 19; Process Skill, SE page 21; LabTime Hands-On Activity 1, TRB pages 15-17, TG page 30</b></p> <p><b>Chapter 2, Lesson 1, Video A, SE page 25; Video B, SE page 26; Video C, SE page 27; Lesson 2, Video A, SE page 31; Video B, SE page 32; Video C, SE page 33; Lesson 3, Video A, SE page 39; LabTime Hands-On Activity 2, TRB pages 33-35, TG page 48</b></p> <p><b>Chapter 3, Lesson 1, Video A, SE page 47; Video B, SE page 48; Video C, SE page 49; Lesson 2, Video B, SE page 56; Video C, SE page 57; Lesson 3, Video B, SE page 62; LabTime Hands-On Activity 3, TRB pages 51-53, TG page 66</b></p> <p><b>Chapter 4, Lesson, 1, Video B, SE page 70; Video C, SE page 71; Lesson 2, Video A, SE page 75; Video B, SE page 76; Video C, SE page 77; LabTime Hands-On Activity 4, TRB pages 69-71, TG page 84</b></p> <p><b>Chapter 5, Lesson 1, Video A, SE page 91; Video B, SE page 92; Video C, SE page 93; Lesson 2, Video A, SE page 99; Video B, SE page 100; Video C, SE page 101; LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102</b></p> <p><b>Chapter 6, Lesson 1, Video A, SE page 113; Video B, SE page 114; Video C, SE page 115; Lesson 2, Video A, SE page 119; Video B, SE page 120; Video C, SE page 121; Lesson 3, Video A, SE page 127; Video B, SE page 128; LabTime Hands-On Activity 6, TRB pages 105-107, TG page 120</b></p> <p><b>Chapter 7, Lesson 1, Video A, SE page 135; Video B, SE page 136; Video C, SE page 137; Lesson 2, Video A, SE page 143; Video B, SE page 144; Video C, SE page 145; Lesson 3, Video A, SE page 149; Video B, SE page 150; Video C, SE page 151; LabTime Hands-On Activity 7, TRB pages 123-125, TG page 138</b></p> <p><b>Chapter 8, Lesson 1, Video A, SE page 157; Video B, SE page 158; Video C, SE page 159; Lesson 2, Video A, SE page 163; Video B, SE page 164; Video C, SE page 165; Lesson 3, Video A, SE page 171; Video B, SE page 172; Video C, SE page 173; LabTime Hands-On Activity 8, TRB pages 141-143, TG page 156</b></p> <p><b>Chapter 9, Lesson 1, Video A, SE page 179; Video B, SE page 180; Video C, SE page 181; Lesson 2, Video A, SE page 187; Video B, SE page 188; Video C, SE page 189; Lesson 3, Video A, SE page 193; Video B, SE page 194; LabTime Hands-On Activity 9, TRB pages 159-161, TG page 174</b></p> <p><b>Energy Transfer, SE page 203</b></p> <p><b>Planet Earth, SE page 204</b></p> <p><b>Earth in Space, SE page 205</b></p>

4.1 UNIFYING CONCEPTS AND PROCESSES
4.1.2 By the end of fourth grade, students will develop an understanding of evidence, models, and explanation.
<ul style="list-style-type: none"> <li>Use evidence gathered from an investigation to develop a scientific explanation.</li> </ul>
<p><b>Chapter 1, LabTime Hands-On Activity 1, TRB pages 15-17, TG page 30</b></p> <p><b>Chapter 3, LabTime Hands-On Activity 3, TRB pages 51-53, TG page 66</b></p> <p><b>Chapter 5, LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102</b></p> <p><b>Chapter 6, LabTime Hands-On Activity 6, TRB pages 105-107, TG page 120</b></p> <p><b>Chapter 7, LabTime Hands-On Activity 7, TRB pages 123-125, TG page 138</b></p> <p><b>Chapter 8, LabTime Hands-On Activity 8, TRB pages 141-143, TG page 156</b></p> <p><b>Chapter 9, LabTime Hands-On Activity 9, TRB pages 159-161, TG page 174</b></p>

4.1 UNIFYING CONCEPTS AND PROCESSES
4.1.2 By the end of fourth grade, students will develop an understanding of evidence, models, and explanation.
<ul style="list-style-type: none"> <li>Create a model, graph, or illustration that represents an object, living thing, or an event.</li> </ul>
<p><b>Chapter 4 LabTime Hands-On Activity, TRB Pages 69-71; TG page 84</b></p> <p><b>Chapter 5 LabTime Hands-On Activity, TRB Pages 87-89; TG page 102</b></p> <p><b>Chapter 6 LabTime Hands-On Activity, TRB pages 105-107; TG page 120</b></p> <p><b>Chapter 7, Lesson 3 Process Skill, SE page 153</b></p>

4.1 UNIFYING CONCEPTS AND PROCESSES
4.1.2 By the end of fourth grade, students will develop an understanding of evidence, models, and explanation.
<ul style="list-style-type: none"> <li>Explain and answer questions about a model and how it represents an object, living thing, or an event.</li> </ul>
<b>Chapter 4 LabTime Hands-On Activity, TRB Pages 69-71; TG page 84</b> <b>Chapter 5 LabTime Hands-On Activity, TRB Pages 87-89; TG page 102</b> <b>Chapter 6 LabTime Hands-On Activity, TRB pages 105-107; TG page 120</b> <b>Chapter 7, Lesson 3 Process Skill, SE page 153</b>

4.1 UNIFYING CONCEPTS AND PROCESSES
4.1.2 By the end of fourth grade, students will develop an understanding of evidence, models, and explanation.
<ul style="list-style-type: none"> <li>Explain procedures or ideas in more than one way (e.g., sketches, charts, and graphs).</li> </ul>
<b>Chapter 1, Lesson 2, Math in Science, SE page 13; Process Skill, SE page 13</b> <b>Chapter 2, LabTime Hands-On Activity 2, TRB pages 33-35, TG page 48</b> <b>Chapter 3, LabTime Hands-On Activity 3, TRB pages 51-53, TG page 66</b> <b>Chapter 5, Lesson 2, Process Skill, SE page 103; LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102</b> <b>Chapter 7, LabTime Hands-On Activity 7, TRB pages 123-125, TG page 138</b> <b>Chapter 8, Lesson 3, Process Skill, SE page 175; LabTime Hands-On Activity 8, TRB pages 141-143, TG page 156</b> <b>Chapter 9, LabTime Hands-On Activity 9, TRB pages 159-161, TG page 174</b>

4.1 UNIFYING CONCEPTS AND PROCESSES
4.1.3 By the end of fourth grade, students will develop an understanding of change, constancy, and measurement.
<ul style="list-style-type: none"> <li>Describe observable changes (e.g., speed, pattern, shape, position, and size).</li> </ul>
<b>Chapter 1, Lesson 3, Video A, SE page 17; Video B, SE page 18; Video C, SE page 19; Critical Thinking, SE page 21; Process Skill, SE page 21</b> <b>Chapter 2, Lesson 2, Video A, SE page 31</b> <b>Chapter 3, Lesson 3, video B, SE page 62; LabTime Hands-On Activity 3, TRB pages 51-53, TG page 66</b> <b>Chapter 4, Lesson 1, Video B, SE page 70; Video C, SE page 71; Lesson 2, Video A, SE page 75; LabTime Hands-On Activity, TRB Pages 69-71; TG page 84</b> <b>Chapter 5, Lesson 1, Video B, SE page 92; Lesson 2, Video B, SE page 100; LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102</b> <b>Chapter 6, Lesson 1, Video A, SE page 113; Video B, SE page 114; Video C, SE page 115; Critical Thinking, SE page 117; Process Skill, SE page 117; LabTime Hands-On Activity, TRB pages 105-107; TG page 120</b> <b>Chapter 8, Lesson 2, Video B, SE page 164; Video C, SE page 165; Critical Thinking, SE page 167; Lesson 3, video A, SE page 171; Video B, SE page 172; Video C, SE page 173; LabTime Hands-On Activity 8, TRB pages 141-143, TG page 156</b> <b>Chapter 9, Lesson 1, Video A, SE page 179; Video C, SE page 181; Process Skill, SE page 183; Lesson 2, Video A, SE page 187; Video B, SE page 188; Video C, SE page 189; Process Skill, SE page 191; Lesson 3, Video B, SE page 194</b>

4.1 UNIFYING CONCEPTS AND PROCESSES
4.1.3 By the end of fourth grade, students will develop an understanding of change, constancy, and measurement.
<ul style="list-style-type: none"> <li>Measure a change using appropriate tools and units of measurement.</li> </ul>
<b>Chapter 3, Lesson 3, Process Skill, SE page 65</b> <b>Chapter 5, LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102</b> <b>Chapter 7, LabTime Hands-On Activity 7, TRB pages 123-125, TG page 138</b> <b>Chapter 8, LabTime Hands-On Activity 8, TRB pages 141-143, TG page 156</b>

4.1 UNIFYING CONCEPTS AND PROCESSES
4.1.4 By the end of fourth grade, students will develop an understanding of form and function.
<ul style="list-style-type: none"> <li>Construct a device to perform a simple task and explain how it works.</li> </ul>
<b>Chapter 5, LabTime Hands-On Activity, TRB pages 87-89, TG page 102</b> <b>Chapter 9, Lesson 2 Process Skill, SE page 191</b>

4.2 SCIENCE AS INQUIRY
4.2.1 By the end of fourth grade, students will develop the abilities to do scientific inquiry.
<ul style="list-style-type: none"> <li>Ask a question about objects, organisms, and events in their surroundings.</li> </ul>
<b>Chapter 1, Lesson 1, Process Skill, SE page 7; LabTime Hands-On Activity 1, TRB pages 15-17, TG page 30</b> <b>Chapter 2, Lesson 3, Process Skill, SE page 43; LabTime Hands-On Activity 2, TRB pages 33-35, TG page 48</b> <b>Chapter 3, LabTime Hands-On Activity 3, TRB pages 51-53, TG page 66</b> <b>Chapter 4, Lesson 2, Process Skill, SE page 79; LabTime Hands-On Activity 4, TRB pages 69-71, TG page 84</b> <b>Chapter 5, LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102</b> <b>Chapter 6, Lesson 3, Process Skill, SE page 131; LabTime Hands-On Activity 6, TRB pages 105-107, TG page 120</b> <b>Chapter 7, LabTime Hands-On Activity 7, TRB pages 123-125, TG page 138</b> <b>Chapter 8, LabTime Hands-On Activity 8, TRB pages 141-143, TG page 156</b> <b>Chapter 9, Lesson 1, Process Skill, SE page 183; LabTime Hands-On Activity 9, TRB pages 159-161, TG page 174</b>

4.2 SCIENCE AS INQUIRY
4.2.1 By the end of fourth grade, students will develop the abilities to do scientific inquiry.
<ul style="list-style-type: none"> <li>Plan and conduct a simple investigation.</li> </ul>
<b>Chapter 1, LabTime Hands-On Activity 1, TRB pages 15-17, TG page 30</b> <b>Chapter 2, LabTime Hands-On Activity 2, TRB pages 33-35, TG page 48</b> <b>Chapter 3, LabTime Hands-On Activity 3, TRB pages 51-53, TG page 66</b> <b>Chapter 4, LabTime Hands-On Activity 4, TRB pages 69-71, TG page 84</b> <b>Chapter 5, LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102</b> <b>Chapter 6, LabTime Hands-On Activity 6, TRB pages 105-107, TG page 120</b> <b>Chapter 7, LabTime Hands-On Activity 7, TRB pages 123-125, TG page 138</b> <b>Chapter 8, Lesson 3, Process Skill, SE page 175; LabTime Hands-On Activity 8, TRB pages 141-143, TG page 156</b> <b>Chapter 9, LabTime Hands-On Activity 9, TRB pages 159-161, TG page 174</b>

4.2 SCIENCE AS INQUIRY
4.2.1 By the end of fourth grade, students will develop the abilities to do scientific inquiry.
<ul style="list-style-type: none"> <li>Use simple equipment and tools (e.g., thermometers and scales) to gather data and extend the senses.</li> </ul>
<b>Chapter 3, Lesson 2, Video A, SE page 55; Video B, SE page 56; Video C, SE page 57</b> <b>Chapter 5, KnowZone, SE pages 96-97; Lesson 3, Video A, SE page 105</b> <b>Chapter 6, KnowZone, SE page 124-125; Lesson 3, Video B, SE page 128; Video C, SE page 129; Process Skill, SE page 131</b> <b>Chapter 7, LabTime Hands-On Activity, TRB pages 123-125; TG page 138</b> <b>Chapter 8, Lesson 1, Video C, SE page 187; LabTime Hands-On Activity. TRB ages 141-143, TG page 156</b>

4.2 SCIENCE AS INQUIRY
4.2.1 By the end of fourth grade, students will develop the abilities to do scientific inquiry.
<ul style="list-style-type: none"> <li>Use data to develop reasonable explanations.</li> </ul>
<b>Chapter 1, LabTime Hands-On Activity 1, TRB pages 15-17, TG page 30</b> <b>Chapter 3, LabTime Hands-On Activity 3, TRB pages 51-53, TG page 66</b> <b>Chapter 5, LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102</b> <b>Chapter 6, LabTime Hands-On Activity 6, TRB pages 105-107, TG page 120</b> <b>Chapter 7, LabTime Hands-On Activity 7, TRB pages 123-125, TG page 138</b> <b>Chapter 8, LabTime Hands-On Activity 8, TRB pages 141-143, TG page 156</b> <b>Chapter 9, LabTime Hands-On Activity 9, TRB pages 159-161, TG page 174</b>

4.2 SCIENCE AS INQUIRY
4.2.1 By the end of fourth grade, students will develop the abilities to do scientific inquiry.
<ul style="list-style-type: none"> <li>Communicate procedures, results, and explanations of an investigation.</li> </ul>
<b>Chapter 1, LabTime Hands-On Activity 1, TRB pages 15-17, TG page 30</b> <b>Chapter 2, LabTime Hands-On Activity 2, TRB pages 33-35, TG page 48</b> <b>Chapter 3, LabTime Hands-On Activity 3, TRB pages 51-53, TG page 66</b> <b>Chapter 4, LabTime Hands-On Activity 4, TRB pages 69-71, TG page 84</b> <b>Chapter 5, LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102</b> <b>Chapter 6, LabTime Hands-On Activity 6, TRB pages 105-107, TG page 120</b> <b>Chapter 7, LabTime Hands-On Activity 7, TRB pages 123-125, TG page 138</b> <b>Chapter 8, Lesson 2, Process Skill, SE page 167; Lesson 3, Process Skill, SE page 175; LabTime Hands-On Activity 8, TRB pages 141-143, TG page 156</b> <b>Chapter 9, LabTime Hands-On Activity 9, TRB pages 159-161, TG page 174</b>

4.3 PHYSICAL SCIENCE
4.3.1 By the end of fourth grade, students will develop an understanding of the characteristics of objects and materials.
<ul style="list-style-type: none"> <li>Classify objects by observable characteristics (shape, size, and color).</li> </ul>
<b>Chapter 4, Lesson 3, Video A, SE page 83</b> <b>Chapter 8, Lesson 1, Video B, SE page 156; Critical Thinking, SE page 161; Process Skill, SE page 161</b>

4.3 PHYSICAL SCIENCE
4.3.1 By the end of fourth grade, students will develop an understanding of the characteristics of objects and materials.
<ul style="list-style-type: none"> <li>Compare and contrast characteristics of common materials using tools (e.g., rulers, scales, thermometers, microscopes, and hand lenses).</li> </ul>
<b>Chapter 3, Lesson 2, Video A, SE page 55; Video B, SE page 56; Video C, SE page 57</b> <b>Chapter 5, KnowZone, SE pages 96-97; Lesson 3, Video A, SE page 105</b> <b>Chapter 6, KnowZone, SE page 124-125; Lesson 3, Video B, SE page 128; Video C, SE page 129; Process Skill, SE page 131</b> <b>Chapter 7, LabTime Hands-On Activity, TRB pages 123-125; TG page 138</b> <b>Chapter 8, Lesson 1, Video C, SE page 187; LabTime Hands-On Activity. TRB ages 141-143, TG page 156</b>

4.3 PHYSICAL SCIENCE
4.3.1 By the end of fourth grade, students will develop an understanding of the characteristics of objects and materials.
<ul style="list-style-type: none"> <li>Demonstrate that materials can change from solid to liquid to gas by heating and from gas to liquid to solid by cooling.</li> </ul>
<b>Chapter 8, Lesson 1, Video A, SE page 157; Video B, SE page 158; Video C, SE page 159; Process Skills 161</b>

4.3 PHYSICAL SCIENCE
4.3.2 By the end of fourth grade, students will develop an understanding of the position and motion of objects.
<ul style="list-style-type: none"> <li>Use reference points to describe the position of an object.</li> </ul>
<b>Chapter 7, Lesson 1, Video A, SE page 135; KnowZone, SE pages 140-141</b>

4.3 PHYSICAL SCIENCE
4.3.2 By the end of fourth grade, students will develop an understanding of the position and motion of objects.
<ul style="list-style-type: none"> <li>Describe an object's motion by tracing its position over time.</li> </ul>
<b>Chapter 7, Lesson 1, Video A, SE page 135</b>

4.3 PHYSICAL SCIENCE
4.3.2 By the end of fourth grade, students will develop an understanding of the position and motion of objects.
<ul style="list-style-type: none"> <li>Demonstrate that the position and motion of objects can be changed by pushing or pulling.</li> </ul>
<b>Chapter 7, Lesson 1, Video A, SE page 135; Video B, SE page 136; Video C, SE page 137; KnowZone, SE pages 140-141; Lesson 2, Video A, SE page 143; Video B, SE page 144</b>

4.3 PHYSICAL SCIENCE
4.3.2 By the end of fourth grade, students will develop an understanding of the position and motion of objects.
<ul style="list-style-type: none"> <li>Demonstrate how sound is produced when objects vibrate.</li> </ul>
<b>Chapter 9, Lesson 1, Video C, SE page 181; Critical Thinking, SE page 183; Writing in Science, SE page 183; Process Skill, SE page 183</b>

4.3 PHYSICAL SCIENCE
4.3.2 By the end of fourth grade, students will develop an understanding of the position and motion of objects.
<ul style="list-style-type: none"> <li>Change the pitch of sound by changing the rate of vibration.</li> </ul>
<b>Chapter 9, Lesson 1, Video C, SE page 181; Critical Thinking, SE page 183; Process Skill, SE page 183</b>

4.3 PHYSICAL SCIENCE
4.3.3 By the end of fourth grade, students will develop an understanding of light, heat, electricity, and magnetism.
<ul style="list-style-type: none"> <li>Distinguish between reflection and refraction of light.</li> </ul>
<b>Chapter 9, Lesson 1, Video A, SE page 179; Video B, SE page 180; LabTime Hands-On Activity 9, TRB pages 159-161, TG page 174</b>

4.3 PHYSICAL SCIENCE
4.3.3 By the end of fourth grade, students will develop an understanding of light, heat, electricity, and magnetism.
<ul style="list-style-type: none"> <li>Identify ways in which heat can be produced (e.g., burning, rubbing, or mixing one substance with another).</li> </ul>
<b>Chapter 8, Lesson 3, Video A, SE page 171; Video B, SE page 172; Video C, SE page 173; LabTime Hands-On Activity 8, TRB pages 141-143, TG page 156</b>

4.3 PHYSICAL SCIENCE
4.3.3 By the end of fourth grade, students will develop an understanding of light, heat, electricity, and magnetism.
<ul style="list-style-type: none"> <li>Demonstrate heat can flow from one object to another by conduction.</li> </ul>
<b>Chapter 8, Lesson 3, Video B, SE page 172; Video C, SE page 173; Process Skill, SE page 175; LabTime Hands-On Activity 8, TRB pages 141-143, TG page 156</b>

4.3 PHYSICAL SCIENCE
4.3.3 By the end of fourth grade, students will develop an understanding of light, heat, electricity, and magnetism.
<ul style="list-style-type: none"> <li>Use electricity to produce heat, sound, or magnetic effects.</li> </ul>
<b>Chapter 9, Lesson 2, Video A, SE page 187; Video C, SE page 189; Critical Thinking, SE page 191; Process Skill, SE page 191</b>

4.3 PHYSICAL SCIENCE
4.3.3 By the end of fourth grade, students will develop an understanding of light, heat, electricity, and magnetism.
<ul style="list-style-type: none"> <li>Demonstrate electrical circuits require a complete loop through which an electrical current can pass.</li> </ul>
<b>Chapter 9, Lesson 2, Video B, SE page 188; Video C, SE page 189; Process Skill, SE page 191</b>

4.3 PHYSICAL SCIENCE
4.3.3 By the end of fourth grade, students will develop an understanding of light, heat, electricity, and magnetism.
<ul style="list-style-type: none"> <li>Describe the physical properties of magnets.</li> </ul>
<b>Chapter 7, Lesson 2, Video A, SE page 143; Video B, SE page 144; Video C, SE page 145; Critical Thinking, SE page 147; Process Skill, SE page 147</b>

4.4 LIFE SCIENCE
4.4.1 By the end of fourth grade, students will develop an understanding of the characteristics of living things.
<ul style="list-style-type: none"> <li>Describe the differences between plants and animals.</li> </ul>
<b>Chapter 1, Lesson 1, Video B, SE page 4; Video C, SE page 5; Lesson 2, Video A, SE page 9; Video B, SE page 10; Video C, SE page 11; Lesson 3, Video A, SE page 17; Video B, SE page 18; Video C, SE page 19; Process Skill, SE page 21</b>

4.4 LIFE SCIENCE
4.4.1 By the end of fourth grade, students will develop an understanding of the characteristics of living things.
<ul style="list-style-type: none"> <li>Describe the various structures of plants and animals necessary for survival and reproduction.</li> </ul>
<b>Chapter 1, Lesson 2, Video A, SE page 9; Video B, SE page 10; Video C, SE page 11; Lesson 3, Video C, SE page 19 Chapter 2, Lesson 2, Video A, SE page 31; KnowZone, SE pages 36-37; Lesson 3, Video B, SE page 40; Video C, SE page 41; Critical Thinking, SE page 43; Process Skill, SE page 43</b>

4.4 LIFE SCIENCE
4.4.1 By the end of fourth grade, students will develop an understanding of the characteristics of living things.
<ul style="list-style-type: none"> <li>Describe how internal stimuli (e.g., hunger) and external stimuli (e.g., changes in the environment) affect behavior of living things.</li> </ul>
<b>Chapter 3, Lesson 3, Video A, SE page 39; Video C, SE page 41 Chapter 3, Lesson 3, Video B, SE page 62</b>

4.4 LIFE SCIENCE
4.4.2 By the end of fourth grade, students will develop an understanding of the life cycles of living things.
<ul style="list-style-type: none"> <li>Describe the life cycle of an organism.</li> </ul>
<b>Chapter 1, Lesson 3, Video A, SE page 17; Video B, SE page 18; Video C, SE page 19; Process Skill, SE page 21</b>

4.4 LIFE SCIENCE
4.4.2 By the end of fourth grade, students will develop an understanding of the life cycles of living things.
<ul style="list-style-type: none"> <li>Identify inherited characteristics of living things (e.g., color and number of eyes).</li> </ul>
<b>Chapter 2, Lesson 3, Video B, SE page 40; Video C, SE page 41; Critical Thinking, SE page 43</b>

4.4 LIFE SCIENCE
4.4.2 By the end of fourth grade, students will develop an understanding of the life cycles of living things.
<ul style="list-style-type: none"> <li>Identify learned characteristics of living things (e.g., language or hunting for food).</li> </ul>
<b>Chapter 2, Lesson 3, Video C, SE page 41; Critical Thinking, SE page 43</b>

4.4 LIFE SCIENCE
4.4.3 By the end of fourth grade, students will develop an understanding of living things and environments.
<ul style="list-style-type: none"> <li>Diagram a food chain.</li> </ul>
<b>Chapter 2, Lesson 2, Video A, 31; Video B, SE page 32; Video C, SE page 33; LabTime Hands-On Activity 2, TRB pages 33-35, TG page 48 Energy Transfer, SE page 203</b>

4.4 LIFE SCIENCE
4.4.3 By the end of fourth grade, students will develop an understanding of living things and environments.
<ul style="list-style-type: none"> <li>• Explain how environmental changes affect behavior and survival of living things.</li> </ul>
<b>Chapter 2, KnowZone, SE pages 36-37; Lesson 3, Video A, SE page 39; Video C, SE page 41; Process Skill, SE page 43</b>

4.4 LIFE SCIENCE
4.4.3 By the end of fourth grade, students will develop an understanding of living things and environments.
<ul style="list-style-type: none"> <li>• Describe how humans and other living things cause both positive and negative changes in their environment.</li> </ul>
<b>Chapter 2, Lesson 1, Video C, SE page 27</b>
<b>Chapter 3, Lesson 3, Video A, SE page 61; Video B, SE page 62; Video C, SE page 63</b>

4.5 EARTH AND SPACE SCIENCE
4.5.1 By the end of fourth grade, students will develop an understanding of the characteristics of earth materials.
<ul style="list-style-type: none"> <li>• Identify characteristics of soils, minerals, rocks, water, and the atmosphere.</li> </ul>
<b>Chapter 4, Lesson 2, Video A, SE page 75; Video B, SE page 76; Video C, SE page 77; Lesson 3, Video A, SE page 83; Video B, SE page 84</b>
<b>Chapter 5, Lesson 1, Video A, SE page 91; Lesson 2, Video A, SE page 99</b>
<b>Chapter 9, Lesson 3, Video C, SE page 195</b>

4.5 EARTH AND SPACE SCIENCE
4.5.1 By the end of fourth grade, students will develop an understanding of the characteristics of earth materials.
<ul style="list-style-type: none"> <li>• List earth materials that are used by humans (e.g., water, fossils fuels, ores, soils).</li> </ul>
<b>Chapter 4, Lesson 2, Video A, SE page 75; Video B, SE page 76; Video C, SE page 77; Lesson 3, Video A, SE page 83; Video B, SE page 84</b>
<b>Chapter 5, Lesson 1, Video A, SE page 91; Lesson 2, Video A, SE page 99</b>
<b>Chapter 9, Lesson 3, Video C, SE page 195</b>

4.5 EARTH AND SPACE SCIENCE
4.5.1 By the end of fourth grade, students will develop an understanding of the characteristics of earth materials.
<ul style="list-style-type: none"> <li>• Select the best earth material for a specific human use (e.g., marble-buildings, clay-pottery, coal-heat).</li> </ul>
<b>Chapter 4, Lesson 2, Video A, SE page 75; Video C, SE page 77; Critical Thinking, SE page 79; Process Skill, SE page 79; Lesson 3, Video A, SE page 83; Video B, SE page 84</b>
<b>Chapter 5, Lesson 2, Video A, SE page 99</b>

4.5 EARTH AND SPACE SCIENCE
4.5.1 By the end of fourth grade, students will develop an understanding of the characteristics of earth materials.
<ul style="list-style-type: none"> <li>• Describe an ancient environment based on fossil evidence.</li> </ul>
<b>Chapter 4, Lesson 2, Video B, SE page 76; Writing in Science, SE page 79; KnowZone, SE pages 80-81</b>

4.5 EARTH AND SPACE SCIENCE
4.5.2 By the end of fourth grade, students will develop an understanding of objects in the sky.
<ul style="list-style-type: none"> <li>• Observe and describe how objects move in patterns (e.g., sun, moon, stars, and clouds).</li> </ul>
<b>Chapter 6, Lesson 1, Video A, SE page 113; Video B, SE page 114; Video C, SE page 115; Process Skill, SE page 117; Lesson 3, Video A, SE page 127; Process Skill, SE page 131; LabTime Hands-On Activity 6, TRB pages 105-107, TG page 120</b>



4.5 EARTH AND SPACE SCIENCE
4.5.3 By the end of fourth grade, students will develop an understanding of the changes in the earth and sky.
<ul style="list-style-type: none"> <li>Describe how slow processes (e.g., erosion) and rapid processes (e.g., earthquakes), change the earth's surface.</li> </ul>
<b>Chapter 4, Lesson 1, Video B, SE page 70; Video C, SE page 71; Process Skill, SE page 73; LabTime Hands-On Activity 4, TRB pages 69-71, TG page 84</b>

4.5 EARTH AND SPACE SCIENCE
4.5.3 By the end of fourth grade, students will develop an understanding of the changes in the earth and sky.
<ul style="list-style-type: none"> <li>Describe and measure changes in weather (e.g., temperature, precipitation, and wind direction and speed).</li> </ul>
<b>Chapter 5, KnowZone, SE pages 96-97; Lesson 2, Process Skill, SE page 103; Lesson 3, Video A, SE page 105; Video B, SE page 106; Video C, SE page 107; LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102</b>

4.6 SCIENCE AND TECHNOLOGY
4.6.1 By the end of fourth grade, students will develop an understanding of technological design.
<ul style="list-style-type: none"> <li>Identify a simple problem.</li> </ul>
<b>Chapter 5, LabTime Hands-On Activity, TRB pages 87-89, TG page 102 Chapter 9, Lesson 2 Process Skill, SE page 191</b>

4.6 SCIENCE AND TECHNOLOGY
4.6.1 By the end of fourth grade, students will develop an understanding of technological design.
<ul style="list-style-type: none"> <li>Propose a solution to a simple problem.</li> </ul>
<b>Chapter 5, LabTime Hands-On Activity, TRB pages 87-89, TG page 102 Chapter 9, Lesson 2 Process Skill, SE page 191</b>

4.6 SCIENCE AND TECHNOLOGY
4.6.1 By the end of fourth grade, students will develop an understanding of technological design.
<ul style="list-style-type: none"> <li>Implement the implementation.</li> </ul>
<b>Chapter 5, LabTime Hands-On Activity, TRB pages 87-89, TG page 102 Chapter 9, Lesson 2 Process Skill, SE page 191</b>

4.6 SCIENCE AND TECHNOLOGY
4.6.1 By the end of fourth grade, students will develop an understanding of technological design.
<ul style="list-style-type: none"> <li>Evaluate the implementation.</li> </ul>
<b>Chapter 5, LabTime Hands-On Activity, TRB pages 87-89, TG page 102 Chapter 9, Lesson 2 Process Skill, SE page 191</b>

4.6 SCIENCE AND TECHNOLOGY
4.6.1 By the end of fourth grade, students will develop an understanding of technological design.
<ul style="list-style-type: none"> <li>Communicate the problem, design, and solution.</li> </ul>
<b>Chapter 5, LabTime Hands-On Activity, TRB pages 87-89, TG page 102 Chapter 9, Lesson 2 Process Skill, SE page 191</b>

4.6 SCIENCE AND TECHNOLOGY
4.6.2 By the end of fourth grade, students will develop an understanding of science and technology.
<ul style="list-style-type: none"> <li>Identify tools or techniques that use scientific knowledge to solve problems.</li> </ul>
<b>Chapter 1, LabTime Hands-On Activity 1, TRB pages 15-17, TG page 30</b> <b>Chapter 2, LabTime Hands-On Activity 2, TRB pages 33-35, TG page 48</b> <b>Chapter 3, LabTime Hands-On Activity 3, TRB pages 51-53, TG page 66</b> <b>Chapter 4, LabTime Hands-On Activity 4, TRB pages 69-71, TG page 84</b> <b>Chapter 5, LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102</b> <b>Chapter 6, LabTime Hands-On Activity 6, TRB pages 105-107, TG page 120</b> <b>Chapter 7, LabTime Hands-On Activity 7, TRB pages 123-125, TG page 138</b> <b>Chapter 8, LabTime Hands-On Activity 8, TRB pages 141-143, TG page 156</b> <b>Chapter 9, LabTime Hands-On Activity 9, TRB pages 159-161, TG page 174</b>

4.6 SCIENCE AND TECHNOLOGY
4.6.2 By the end of fourth grade, students will develop an understanding of science and technology.
<ul style="list-style-type: none"> <li>Identify, investigate, and solve a problem in the home or school.</li> </ul>
<b>Chapter 1, Lesson 1, Critical Thinking, SE page 7</b> <b>Chapter 3, Lesson 1, Process Skill, SE page 51; Lesson 3, Process Skill, SE page 65</b> <b>Chapter 4, Lesson 2, Process Skill, SE page 79</b> <b>Chapter 5, Lesson 3, Critical Thinking, SE page 109</b>

4.6 SCIENCE AND TECHNOLOGY
4.6.3 By the end of fourth grade, students will develop an understanding of the abilities to distinguish between natural objects and objects made by humans.
<ul style="list-style-type: none"> <li>Classify an object as natural or manufactured.</li> </ul>
<b>Chapter 3, Lesson 2, Video A, SE page 55</b> <b>Chapter 4, Lesson 2, Video A, SE page 83; Video B, SE page 84; Video C, SE page 85</b> <b>Chapter 7, Lesson 2, Video C, SE page 145; Lesson 3, Video A, SE page 149; Video B, SE page 150; Video C, SE page 151; Process Skill, SE page 153</b> <b>Chapter 8, KnowZone, SE page 168-169; Lesson 3, video B, SE page 172; Video C, SE page 173</b>

4.7 SCIENCE IN PERSONAL AND SOCIAL PERSPECTIVES
4.7.1 By the end of fourth grade, students will develop an understanding of personal health.
<ul style="list-style-type: none"> <li>Explain how the body uses food and how various foods contribute to health.</li> </ul>
<b>Chapter 3, Lesson 1, Video C, SE page 49; Critical Thinking, SE page 51; Process Skill, SE page 51</b>

4.7 SCIENCE IN PERSONAL AND SOCIAL PERSPECTIVES
4.7.1 By the end of fourth grade, students will develop an understanding of personal health.
<ul style="list-style-type: none"> <li>Describe how different substances (e.g., tobacco, alcohol, and drugs) can damage the body and alter how it functions.</li> </ul>
<b>This concept is not covered at this level.</b>

4.7 SCIENCE IN PERSONAL AND SOCIAL PERSPECTIVES
4.7.2 By the end of fourth grade, students will develop an understanding of the types of resources.
<ul style="list-style-type: none"> <li>List examples of resources which are basic materials (e.g., air, water, and soil).</li> </ul>
<b>Chapter 3, Lesson 3, Video A, SE page 61</b> <b>Chapter 4, Lesson 3, Video A, SE page 83; Video B, SE page 84; Video C, SE page 85</b> <b>Chapter 5, Lesson 2, Video A, SE page 99; Video C, SE page 101; Critical Thinking, SE page 103</b> <b>Chapter 9, Lesson 3, Video C, SE page 195</b>

4.7 SCIENCE IN PERSONAL AND SOCIAL PERSPECTIVES
4.7.2 By the end of fourth grade, students will develop an understanding of the types of resources.
<ul style="list-style-type: none"> <li>List examples of resources produced from basic materials (e.g., food, fuel, and building materials).</li> </ul>
<b>Chapter 3, Lesson 3, Video A, SE page 61</b> <b>Chapter 4, Lesson 3, Video A, SE page 83; Video B, SE page 84; Video C, SE page 85</b> <b>Chapter 5, Lesson 2, Video A, SE page 99; Video C, SE page 101; Critical Thinking, SE page 103</b> <b>Chapter 9, Lesson 3, Video C, SE page 195</b>

4.7 SCIENCE IN PERSONAL AND SOCIAL PERSPECTIVES
4.7.2 By the end of fourth grade, students will develop an understanding of the types of resources.
<ul style="list-style-type: none"> <li>List examples of resources which are intangible materials (e.g., beauty, security, and quiet places).</li> </ul>
<b>Chapter 3, Lesson 3, Video C, SE page 63</b>

4.7 SCIENCE IN PERSONAL AND SOCIAL PERSPECTIVES
4.7.2 By the end of fourth grade, students will develop an understanding of the types of resources.
<ul style="list-style-type: none"> <li>Research and report on the supply of various resources.</li> </ul>
<b>Chapter 4, Lesson 2, Video C, SE page 77; Lesson 3, Video A, SE page 83; Video B, SE page 84; Video C, SE page 85;</b> <b>Process Skill, SE page 87</b> <b>Chapter 9, Lesson 3, Video C, SE page 195</b>

4.7 SCIENCE IN PERSONAL AND SOCIAL PERSPECTIVES
4.7.3 By the end of fourth grade, students will develop an understanding of environmental changes.
<ul style="list-style-type: none"> <li>Distinguish between natural environmental changes and human influenced environmental changes.</li> </ul>
<b>Chapter 2, Lesson 1, Video C, SE page 27; Critical Thinking, SE page 29; Lesson 2, Critical Thinking, SE page 35;</b> <b>Process Skill, SE page 35</b> <b>Chapter 3, Lesson 3, Video A, SE page 61; Video B, SE page 62; Video C, SE page 63; Critical Thinking, SE page 65</b> <b>Chapter 4, Lesson 3, Video B, SE page 84; Video C, SE page 85; Critical Thinking, SE page 87; LabTime Hands-On</b> <b>Activity 4, TRB pages 69-71, TG page 84</b> <b>Chapter 5, Lesson 2, Video C, SE page 101; Critical Thinking, SE page 103</b> <b>Chapter 9, Lesson 3, Video C, SE page 195; Critical Thinking, SE page 197; Process Skill, SE page 197</b>

4.7 SCIENCE IN PERSONAL AND SOCIAL PERSPECTIVES
4.7.4 By the end of fourth grade, students will develop an understanding of how science and technology helps communities resolve problems.
<ul style="list-style-type: none"> <li>Research and explain how science and technology affect the quality of life.</li> </ul>
<b>Chapter 3, Lesson 2, Video A, SE page 55; Video B, SE page 56; Video C, SE page 57; Math in Science, SE page 59</b> <b>Chapter 4, Lesson 1, Process Skill, SE page 73</b> <b>Chapter 5, KnowZone, SE pages 96-97; Lesson 3, Video A, 105</b> <b>Chapter 6, KnowZone, SE pages 124-125; Lesson 3, Video B, SE page 128; Video C, SE page 129</b> <b>Chapter 8, KnowZone, SE pages 168-169</b>

4.8 HISTORY AND NATURE OF SCIENCE
4.8.1 By the end of fourth grade, students will develop an understanding of science as a human endeavor.
<ul style="list-style-type: none"> <li>Research and report on the contributions to science and technology throughout history by men and women scientists of diverse cultures.</li> </ul>
<b>Chapter 3, Lesson 2 Process Skill, SE page 59</b> <b>Chapter 4, KnowZone, SE pages 80-81</b> <b>Chapter 5, KnowZone, SE pages 96-97; Lesson 3, Video A, SE page 105</b> <b>Chapter 6, Lesson 3, Video B, SE page 128; Video C, SE page 129</b> <b>Chapter 7, Lesson 3, Video A, SE page 149; Video B, SE page 150; Video C, SE page 151</b> <b>Chapter 8, KnowZone, SE pages 168-169</b> <b>Chapter 9, Lesson 2, Video A, SE page 187; Video B, SE page SE page 188; Video C, SE page 189</b>

4.8 HISTORY AND NATURE OF SCIENCE
4.8.1 By the end of fourth grade, students will develop an understanding of science as a human endeavor.
<ul style="list-style-type: none"> <li>Research and report on how science is used in different careers.</li> </ul>
<b>Chapter 3, Lesson 2, Critical Thinking, SE page 159; Process Skill, SE page 59</b> <b>Chapter 4, Lesson 1, Critical Thinking, SE page 73; Lesson 3, Critical Thinking, SE page 87</b> <b>Chapter 5, Lesson 1, Process Skill, SE page 95; Lesson 3, Video A, SE page 105; Critical Thinking, SE page 109</b> <b>Chapter 6, Lesson 3, Critical Thinking, SE page 131</b> <b>Chapter 9, Lesson 3, Video C, SE page 195</b>

4.8 HISTORY AND NATURE OF SCIENCE
4.8.1 By the end of fourth grade, students will develop an understanding of science as a human endeavor.
<ul style="list-style-type: none"> <li>Research and report on how current scientific discoveries illustrate that science is an ongoing process.</li> </ul>
<b>Chapter 3, Lesson 2, Process Skill, SE page 59</b> <b>Chapter 4, Lesson 1, Video C, SE page 71; Critical Thinking, SE page 73; Lesson 3, Critical Thinking, SE page 87</b> <b>Chapter 5, Lesson 3, Video B, SE page 106; Video C, SE page 107; Process Skill, SE page 109</b> <b>Chapter 6, KnowZone, SE pages 124-125; Lesson 2, Video A, SE page 118; Video B, SE page 1 20; Critical thinking, SE page 123; Lesson 3, Video B, SE page 128; Video C, SE page 129</b>

***SRA Snapshots Video Science™: Level B***  
**correlation to**  
**Nebraska Science Standards**  
**Grade 4**

*SRA Snapshots Video Science™* consists of four interdependent components. Each level has four program DVDs that provide engaging video lessons. The student edition (**SE**) provides student friendly text that reinforces the concepts introduced in the video. The Teacher’s Resource Book (**TRB**) provides support activities in a blackline master format. The Teacher’s Guide (**TG**) provides lesson planning, differentiated instruction activities, and answers to all student activities in the Student Edition.

**KEY:**

<b>Reference</b>	<b>Program Component</b>
<b>Video</b>	Video lessons on program DVDs
<b>SE</b>	Student Edition
<b>TRB</b>	Teacher’s Resource Book
<b>TG</b>	Teacher’s Guide

4.1 UNIFYING CONCEPTS AND PROCESSES
4.1.1 By the end of fourth grade, students will develop an understanding of systems, order, and organization.
<ul style="list-style-type: none"> <li>• Describe the parts that make up a system.</li> </ul>
<p>Chapter 2, Lesson 1, Video A, SE page 25; Video B, SE page 26; Video C, SE page 27; Process Skill, SE page 29; Lesson 2, Video A, SE page 31; Video B, SE page 32; Video C, SE page 33; Process Skill, SE page 35; Lesson 3, Video A, SE page 39; Video B, SE page 40; Video C, SE page 41; LabTime Hands-On Activity 2, TRB pages 33-35, TG page 48</p> <p>Chapter 3, Lesson 1, Video A, SE page 47; Video B, SE page 48; Lesson 2, Video A, SE page 55; Video B, SE page 56; Video C, SE page 57; Process Skill, SE page 59; Lesson 3, Video A, SE page 61; Video B, SE page 62; Video C, SE page 63; Critical Thinking, SE page 65</p> <p>Chapter 4, Lesson 2, Video C, SE page 77</p> <p>Chapter 5, Lesson 1, Video A, SE page 91; Video B, SE page 92; Lesson 2, Video A, SE page 97; Lesson 3, Video C, SE page 107; LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102</p> <p>Chapter 6, Lesson 1, Video A, SE page 113; Video B, SE page 114; Video C, SE page 115; Lesson 2, Video A, SE page 119; Video C, SE page 121; LabTime Hands-On Activity 6, TRB pages 105-107, TG page 120</p> <p>Chapter 7, Lesson 1, Video C, SE page 137; Lesson 3, Video A, SE page 149; Video B, SE page 150; Video C, SE page 151; LabTime Hands-On Activity 7, TRB pages 123-125, TG page 138</p> <p>Chapter 8, Lesson 1, Video A, SE page 157; Video B, SE page 158; Video C, SE page 157; Lesson 2, Video A, SE page 163; Video B, SE page 164; Video C, SE page 165; Lesson 3, Video C, SE page 173; LabTime Hands-On Activity 8, TRB pages 141-143, TG page 156</p> <p>Chapter 9, Lesson 1, Video C, SE page 181; Lesson 2, Video C, SE page 187; LabTime Hands-On Activity 9, TRB pages 159-161, TG page 174</p>

4.1 UNIFYING CONCEPTS AND PROCESSES
4.1.1 By the end of fourth grade, students will develop an understanding of systems, order, and organization.
<ul style="list-style-type: none"> <li>Relate how the parts of a system affect the whole system.</li> </ul>
<p><b>Chapter 2, Lesson 1, Video A, SE page 25; Video B, SE page 26; Video C, SE page 27; Process Skill, SE page 29; Lesson 2, Video A, SE page 31; Video B, SE page 32; Video C, SE page 33; Process Skill, SE page 35; Lesson 3, Video A, SE page 39; Video B, SE page 40; Video C, SE page 41; LabTime Hands-On Activity 2, TRB pages 33-35, TG page 48</b></p> <p><b>Chapter 3, Lesson 1, Video A, SE page 47; Video B, SE page 48; Lesson 2, Video A, SE page 55; Video B, SE page 56; Video C, SE page 57; Process Skill, SE page 59; Lesson 3, Video A, SE page 61; Video B, SE page 62; Video C, SE page 63; Critical Thinking, SE page 65</b></p> <p><b>Chapter 4, Lesson 2, Video C, SE page 77</b></p> <p><b>Chapter 5, Lesson 1, Video A, SE page 91; Video B, SE page 92; Lesson 2, Video A, SE page 97; Lesson 3, Video C, SE page 107; LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102</b></p> <p><b>Chapter 6, Lesson 1, Video A, SE page 113; Video B, SE page 114; Video C, SE page 115; Lesson 2, Video A, SE page 119; Video C, SE page 121; LabTime Hands-On Activity 6, TRB pages 105-107, TG page 120</b></p> <p><b>Chapter 7, Lesson 1, Video C, SE page 137; Lesson 3, Video A, SE page 149; Video B, SE page 150; Video C, SE page 151; LabTime Hands-On Activity 7, TRB pages 123-125, TG page 138</b></p> <p><b>Chapter 8, Lesson 1, Video A, SE page 157; Video B, SE page 158; Video C, SE page 157; Lesson 2, Video A, SE page 163; Video B, SE page 164; Video C, SE page 165; Lesson 3, Video C, SE page 173; LabTime Hands-On Activity 8, TRB pages 141-143, TG page 156</b></p> <p><b>Chapter 9, Lesson 1, Video C, SE page 181; Lesson 2, Video C, SE page 187; LabTime Hands-On Activity 9, TRB pages 159-161, TG page 174</b></p>

4.1 UNIFYING CONCEPTS AND PROCESSES
4.1.2 By the end of fourth grade, students will develop an understanding of evidence, models, and explanation.
<ul style="list-style-type: none"> <li>Use evidence gathered from an investigation to develop a scientific explanation.</li> </ul>
<p><b>Chapter 1, Lesson 1, Process Skill, SE page 7; LabTime Hands-On Activity 1, TRB pages 15-17, TG page 30</b></p> <p><b>Chapter 2, Lesson 2, Process Skill, SE page 35; LabTime Hands-On Activity 2, TRB pages 33-35, TG page 48</b></p> <p><b>Chapter 3, Lesson 1, Process Skill, SE page 51; LabTime Hands-On Activity 3, TRB pages 51-53, TG page 66</b></p> <p><b>Chapter 4, Lesson 3, Process Skill, SE page 85; LabTime Hands-On Activity 4, TRB pages 69-71, TG page 84</b></p> <p><b>Chapter 5, Lesson 1, Process Skill, SE page 95; LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102</b></p> <p><b>Chapter 6, Lesson 2, Process Skill, SE page 123; LabTime Hands-On Activity 6, TRB pages 105-107, TG page 120</b></p> <p><b>Chapter 7, Lesson 1, Process Skill, SE page 139; LabTime Hands-On Activity 7, TRB pages 123-125, TG page 138</b></p> <p><b>Chapter 8, LabTime Hands-On Activity 8, TRB pages 141-143, TG page 156</b></p> <p><b>Chapter 9, Lesson 1, Process Skill, SE page 183; Lesson 3, Process Skill, SE page 195; LabTime Hands-On Activity 9, TRB pages 159-161, TG page 174</b></p>

4.1 UNIFYING CONCEPTS AND PROCESSES
4.1.2 By the end of fourth grade, students will develop an understanding of evidence, models, and explanation.
<ul style="list-style-type: none"> <li>Create a model, graph, or illustration that represents an object, living thing, or an event.</li> </ul>
<p><b>Chapter 4, Lesson 1, Process Skill, SE page 73; LabTime Hands-On Activity 4, TRB pages 69-71, TG page 84</b></p> <p><b>Chapter 6, Lesson 1, Process Skill, SE page 117</b></p> <p><b>Chapter 8, Lesson 3, Process Skill, SE page 175</b></p> <p><b>Chapter 9, Lesson 2, Process Skill, SE page 189</b></p>

4.1 UNIFYING CONCEPTS AND PROCESSES
4.1.2 By the end of fourth grade, students will develop an understanding of evidence, models, and explanation.
<ul style="list-style-type: none"> <li>Explain and answer questions about a model and how it represents an object, living thing, or an event.</li> </ul>
<p><b>Chapter 4, Lesson 1, Process Skill, SE page 73; LabTime Hands-On Activity 4, TRB pages 69-71, TG page 84</b></p> <p><b>Chapter 6, Lesson 1, Process Skill, SE page 117</b></p> <p><b>Chapter 8, Lesson 3, Process Skill, SE page 175</b></p> <p><b>Chapter 9, Lesson 2, Process Skill, SE page 189</b></p>

4.1 UNIFYING CONCEPTS AND PROCESSES
4.1.2 By the end of fourth grade, students will develop an understanding of evidence, models, and explanation.
<ul style="list-style-type: none"> <li>• Explain procedures or ideas in more than one way (e.g., sketches, charts, and graphs).</li> </ul>
<b>Chapter 1, LabTime Hands-On Activity 1, TRB pages 15-17, TG page 30</b> <b>Chapter 2, LabTime Hands-On Activity 2, TRB pages 33-35, TG page 48</b> <b>Chapter 3, LabTime Hands-On Activity 3, TRB pages 51-53, TG page 66</b> <b>Chapter 4, Lesson 1, Process Skill, SE page 73; LabTime Hands-On Activity 4, TRB pages 69-71, TG page 84</b> <b>Chapter 5, Lesson 1, Process Skill, SE page 95; LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102</b> <b>Chapter 6, Lesson 1, Process Skill, SE page 117; LabTime Hands-On Activity 6, TRB pages 105-107, TG page 120</b> <b>Chapter 7, LabTime Hands-On Activity 7, TRB pages 123-125, TG page 138</b> <b>Chapter 8, LabTime Hands-On Activity 8, TRB pages 141-143, TG page 156</b> <b>Chapter 9, Lesson 2, Process Skill, SE page 189; LabTime Hands-On Activity 9, TRB pages 159-161, TG page 174</b>

4.1 UNIFYING CONCEPTS AND PROCESSES
4.1.3 By the end of fourth grade, students will develop an understanding of change, constancy, and measurement.
<ul style="list-style-type: none"> <li>• Describe observable changes (e.g., speed, pattern, shape, position, and size).</li> </ul>
<b>Chapter 3, Lesson 3, Video A, SE page 61; Video B, SE page 62; Video C, SE page 63; Critical Thinking, SE page 63</b> <b>Chapter 5, Lesson 1, Video A, SE page 91; Video B, SE page 92; Process Skill, SE page 95; LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102</b> <b>Chapter 6, Lesson 1, Video B, SE page 114; Video C, SE page 115; LabTime Hands-On Activity 6, TRB pages 105-107, TG page 120</b> <b>Chapter 7, Lesson 3, Video C, SE page 151; LabTime Hands-On Activity 7, TRB pages 123-125, TG page 138</b> <b>Chapter 8, Lesson 1, Process Skill, SE page 161; Lesson 3, Critical Thinking, SE page 175; LabTime Hands-On Activity 8, TRB pages 141-143, TG page 156</b>

4.1 UNIFYING CONCEPTS AND PROCESSES
4.1.3 By the end of fourth grade, students will develop an understanding of change, constancy, and measurement.
<ul style="list-style-type: none"> <li>• Measure a change using appropriate tools and units of measurement.</li> </ul>
<b>Chapter 1, LabTime Hands-On Activity 1, TRB pages 15-17, TG page 30</b> <b>Chapter 5, LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102</b> <b>Chapter 6, LabTime Hands-On Activity 6, TRB pages 105-107, TG page 120</b> <b>Chapter 7, Lesson 2, Video A, SE page 143; Video B, SE page 144; Video C, SE page 145; Process Skill, SE page 147</b> <b>Chapter 8, Lesson 3, Process Skill, SE page 175</b> <b>The Metric System, SE pages 200-201</b>

4.1 UNIFYING CONCEPTS AND PROCESSES
4.1.4 By the end of fourth grade, students will develop an understanding of form and function.
<ul style="list-style-type: none"> <li>• Construct a device to perform a simple task and explain how it works.</li> </ul>
<b>Chapter 6, Lesson 1 Process Skill, SE page 117</b> <b>Chapter 9, Lesson 2 Process Skill, SE page 189; ; LabTime Hands-On Activity, TRB pages 159-161, TG page 174</b>

4.2 SCIENCE AS INQUIRY
4.2.1 By the end of fourth grade, students will develop the abilities to do scientific inquiry.
<ul style="list-style-type: none"> <li>• Ask a question about objects, organisms, and events in their surroundings.</li> </ul>
<b>Chapter 1, LabTime Hands-On Activity 1, TRB pages 15-17, TG page 30</b> <b>Chapter 2, LabTime Hands-On Activity 2, TRB pages 33-35, TG page 48</b> <b>Chapter 3, Lesson 3, Process Skill, SE page 65; LabTime Hands-On Activity 3, TRB pages 51-53, TG page 66</b> <b>Chapter 4, Lesson 3, Process Skill, SE page 85; LabTime Hands-On Activity 4, TRB pages 69-71, TG page 84</b> <b>Chapter 5, LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102</b> <b>Chapter 6, LabTime Hands-On Activity 6, TRB pages 105-107, TG page 120</b> <b>Chapter 7, LabTime Hands-On Activity 7, TRB pages 123-125, TG page 138</b> <b>Chapter 8, LabTime Hands-On Activity 8, TRB pages 141-143, TG page 156</b> <b>Chapter 9, LabTime Hands-On Activity 9, TRB pages 159-161, TG page 174</b>

<b>4.2 SCIENCE AS INQUIRY</b>
4.2.1 By the end of fourth grade, students will develop the abilities to do scientific inquiry.
<ul style="list-style-type: none"> <li>Plan and conduct a simple investigation.</li> </ul>
<b>Chapter 1, LabTime Hands-On Activity 1, TRB pages 15-17, TG page 30</b> <b>Chapter 2, LabTime Hands-On Activity 2, TRB pages 33-35, TG page 48</b> <b>Chapter 3, Lesson 3, Process Skill, SE page 65; LabTime Hands-On Activity 3, TRB pages 51-53, TG page 66</b> <b>Chapter 4, Lesson 3, Process Skill, SE page 85; LabTime Hands-On Activity 4, TRB pages 69-71, TG page 84</b> <b>Chapter 5, LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102</b> <b>Chapter 6, LabTime Hands-On Activity 6, TRB pages 105-107, TG page 120</b> <b>Chapter 7, LabTime Hands-On Activity 7, TRB pages 123-125, TG page 138</b> <b>Chapter 8, LabTime Hands-On Activity 8, TRB pages 141-143, TG page 156</b> <b>Chapter 9, LabTime Hands-On Activity 9, TRB pages 159-161, TG page 174</b>

<b>4.2 SCIENCE AS INQUIRY</b>
4.2.1 By the end of fourth grade, students will develop the abilities to do scientific inquiry.
<ul style="list-style-type: none"> <li>Use simple equipment and tools (e.g., thermometers and scales) to gather data and extend the senses.</li> </ul>
<b>Chapter 1, Lesson 1, Video A, SE page 3</b> <b>Chapter 4, Lesson 2, Video C, SE page 77</b> <b>Chapter 5 LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102</b> <b>Chapter 6, Lesson 3, Video A, SE page 125; Video B, SE page 126; Video C, SE page 127; KnowZone, SE pages 105-107; LabTime Hands-On Activity 6, TRB pages 105-107, TG page 120</b> <b>Chapter 7, Lesson 2, Video A, SE page 143; Video B, SE page 144; Video C, SE page 145</b> <b>Chapter 8, Lesson 2, Video C, SE page 165; KnowZone, SE pages 168-169</b> <b>Chapter 9 KnowZone, SE pages 196-197</b>

<b>4.2 SCIENCE AS INQUIRY</b>
4.2.1 By the end of fourth grade, students will develop the abilities to do scientific inquiry.
<ul style="list-style-type: none"> <li>Use data to develop reasonable explanations.</li> </ul>
<b>Chapter 1, Lesson 1, Process Skill, SE page 7; LabTime Hands-On Activity 1, TRB pages 15-17, TG page 30</b> <b>Chapter 2, Lesson 2, Process Skill, SE page 35; LabTime Hands-On Activity 2, TRB pages 33-35, TG page 48</b> <b>Chapter 3, Lesson 1, Process Skill, SE page 51; LabTime Hands-On Activity 3, TRB pages 51-53, TG page 66</b> <b>Chapter 4, Lesson 3, Process Skill, SE page 85; LabTime Hands-On Activity 4, TRB pages 69-71, TG page 84</b> <b>Chapter 5, Lesson 1, Process Skill, SE page 95; LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102</b> <b>Chapter 6, Lesson 2, Process Skill, SE page 123; LabTime Hands-On Activity 6, TRB pages 105-107, TG page 120</b> <b>Chapter 7, Lesson 1, Process Skill, SE page 139; LabTime Hands-On Activity 7, TRB pages 123-125, TG page 138</b> <b>Chapter 8, LabTime Hands-On Activity 8, TRB pages 141-143, TG page 156</b> <b>Chapter 9, Lesson 1, Process Skill, SE page 183; Lesson 3, Process Skill, SE page 195; LabTime Hands-On Activity 9, TRB pages 159-161, TG page 174</b>

<b>4.2 SCIENCE AS INQUIRY</b>
4.2.1 By the end of fourth grade, students will develop the abilities to do scientific inquiry.
<ul style="list-style-type: none"> <li>Communicate procedures, results, and explanations of an investigation.</li> </ul>
<b>Chapter 1, LabTime Hands-On Activity 1, TRB pages 15-17, TG page 30</b> <b>Chapter 2, LabTime Hands-On Activity 2, TRB pages 33-35, TG page 48</b> <b>Chapter 3, Lesson 3, Process Skill, SE page 65; LabTime Hands-On Activity 3, TRB pages 51-53, TG page 66</b> <b>Chapter 4, LabTime Hands-On Activity 4, TRB pages 69-71, TG page 84</b> <b>Chapter 5, Lesson 3, Process Skill, SE page 109; LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102</b> <b>Chapter 6, LabTime Hands-On Activity 6, TRB pages 105-107, TG page 120</b> <b>Chapter 7, LabTime Hands-On Activity 7, TRB pages 123-125, TG page 138</b> <b>Chapter 8, LabTime Hands-On Activity 8, TRB pages 141-143, TG page 156</b> <b>Chapter 9, LabTime Hands-On Activity 9, TRB pages 159-161, TG page 174</b>



4.3 PHYSICAL SCIENCE
4.3.1 By the end of fourth grade, students will develop an understanding of the characteristics of objects and materials.
<ul style="list-style-type: none"> <li>Classify objects by observable characteristics (shape, size, and color).</li> </ul>
<b>Chapter 4, Lesson 2, Video A, SE page 81</b> <b>Chapter 7, Lesson 1, Video B, SE page 136; Lesson 3, Video B, SE page 150; Video C, SE page 151</b> <b>Chapter 9, Lesson 1, Video B, SE page 180</b>

4.3 PHYSICAL SCIENCE
4.3.1 By the end of fourth grade, students will develop an understanding of the characteristics of objects and materials.
<ul style="list-style-type: none"> <li>Compare and contrast characteristics of common materials using tools (e.g., rulers, scales, thermometers, microscopes, and hand lenses).</li> </ul>
<b>Chapter 1, LabTime Hands-On Activity 1, TRB pages 15-17, TG page 30</b> <b>Chapter 5, LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102</b> <b>Chapter 6, LabTime Hands-On Activity 6, TRB pages 105-107, TG page 120</b> <b>Chapter 7, Lesson 2, Video A, SE page 143; Video B, SE page 144; Video C, SE page 145; Process Skill, SE page 147</b> <b>Chapter 8, Lesson 3, Process Skill, SE page 175</b> <b>The Metric System, SE pages 200-201</b>

4.3 PHYSICAL SCIENCE
4.3.1 By the end of fourth grade, students will develop an understanding of the characteristics of objects and materials.
<ul style="list-style-type: none"> <li>Demonstrate that materials can change from solid to liquid to gas by heating and from gas to liquid to solid by cooling.</li> </ul>
<b>Chapter 7, Lesson 1, Video C, SE page 137; Critical Thinking, SE page 139; Process Skill, SE page 139; Lesson 3, Video C, SE page 151</b>

4.3 PHYSICAL SCIENCE
4.3.2 By the end of fourth grade, students will develop an understanding of the position and motion of objects.
<ul style="list-style-type: none"> <li>Use reference points to describe the position of an object.</li> </ul>
<b>See Level A:</b> <b>Chapter 7, Lesson 1, Video A, SE page 135</b>
<b>See also Level C:</b> <b>Chapter 9, Lesson 2, Video A, SE page 187</b>

4.3 PHYSICAL SCIENCE
4.3.2 By the end of fourth grade, students will develop an understanding of the position and motion of objects.
<ul style="list-style-type: none"> <li>Describe an object's motion by tracing its position over time.</li> </ul>
<b>Level B:</b> <b>Chapter 8, Lesson 3, Video A, SE page 171</b>
<b>See also Level A:</b> <b>Chapter 7, Lesson 1, Video A, SE page 135</b>
<b>See also Level C:</b> <b>Chapter 9, Lesson 2, Video A, SE page 187; Video B, SE page 188; Video C, SE page 189; Critical Thinking, SE page 191; Process Skill, SE page 191</b>

4.3 PHYSICAL SCIENCE
4.3.2 By the end of fourth grade, students will develop an understanding of the position and motion of objects.
<ul style="list-style-type: none"> <li>Demonstrate that the position and motion of objects can be changed by pushing or pulling.</li> </ul>
<b>See Level A:</b> <b>Chapter 7, Lesson 1, Video C, SE page 135; Video B, SE page 136; Video C, SE page 137</b>
<b>See also Level C:</b> <b>Chapter 9, Lesson 1, Video A, SE page 179; Video C, SE page 181; Lesson 2, Video A, SE page 187; Video B, SE page 188; Video C, SE page 189; Lesson 3, Video A, SE page 193; Video B, SE page 194; Video C, SE page 195</b>

4.3 PHYSICAL SCIENCE
4.3.2 By the end of fourth grade, students will develop an understanding of the position and motion of objects.
<ul style="list-style-type: none"> <li>Demonstrate how sound is produced when objects vibrate.</li> </ul>
<b>Chapter 8, Lesson 1, Video A, SE page 157; Video B, SE page 158; Video C, SE page 159; Writing in Science, SE page 161; Process Skill, SE page 161; LabTime Hands-On Activity 8, TRB Pages 141-143; TG Page 156</b>

4.3 PHYSICAL SCIENCE
4.3.2 By the end of fourth grade, students will develop an understanding of the position and motion of objects.
<ul style="list-style-type: none"> <li>Change the pitch of sound by changing the rate of vibration.</li> </ul>
<b>Chapter 8, Lesson 1, Video C, SE page 159; Writing in Science, SE page 161; Process Skill, SE page 161; LabTime Hands-On Activity 8, TRB Pages 141-143; TG Page 156</b>

4.3 PHYSICAL SCIENCE
4.3.3 By the end of fourth grade, students will develop an understanding of light, heat, electricity, and magnetism.
<ul style="list-style-type: none"> <li>Distinguish between reflection and refraction of light.</li> </ul>
<b>Chapter 8, Lesson 2, Video A, SE page 163; Video C, SE page 165</b>

4.3 PHYSICAL SCIENCE
4.3.3 By the end of fourth grade, students will develop an understanding of light, heat, electricity, and magnetism.
<ul style="list-style-type: none"> <li>Identify ways in which heat can be produced (e.g., burning, rubbing, or mixing one substance with another).</li> </ul>
<b>See Level A:</b> <b>Chapter 8, Lesson 3, Video A, , SE page 171; Video B, SE page 172; Video C, SE page 173</b>
<b>See also Level C:</b> <b>Chapter 8, Lesson 2, Video A, SE page 163; Video B, SE page 164</b>

4.3 PHYSICAL SCIENCE
4.3.3 By the end of fourth grade, students will develop an understanding of light, heat, electricity, and magnetism.
<ul style="list-style-type: none"> <li>Demonstrate heat can flow from one object to another by conduction.</li> </ul>
<b>See Level C:</b> <b>Chapter 8, Lesson 2, Video A, SE page 163; Video B, SE page 164; Critical Thinking, SE page 167; Process Skill, SE page 167</b>

4.3 PHYSICAL SCIENCE
4.3.3 By the end of fourth grade, students will develop an understanding of light, heat, electricity, and magnetism.
<ul style="list-style-type: none"> <li>Use electricity to produce heat, sound, or magnetic effects.</li> </ul>
<b>Chapter 9, Lesson 1, Video C, SE page 181; LabTime Hands-On Activity 9, TRB pages 159-161, TG page 174</b>

4.3 PHYSICAL SCIENCE
4.3.3 By the end of fourth grade, students will develop an understanding of light, heat, electricity, and magnetism.
<ul style="list-style-type: none"> <li>Demonstrate electrical circuits require a complete loop through which an electrical current can pass.</li> </ul>
<b>Level B:</b> <b>Chapter 9, Lesson 1, Video C, SE page 181</b>
<b>See also Level A:</b> <b>Chapter 9, Lesson 2, Video B, SE page 188; Process Skill, SE page 191</b>
<b>See also Level C:</b> <b>Chapter 8, Lesson 3, Video A, SE page 171</b>

4.3 PHYSICAL SCIENCE
4.3.3 By the end of fourth grade, students will develop an understanding of light, heat, electricity, and magnetism.
<ul style="list-style-type: none"> <li>Describe the physical properties of magnets.</li> </ul>
<b>Chapter 9, Lesson 2, Video A, SE page 185</b>

4.4 LIFE SCIENCE
4.4.1 By the end of fourth grade, students will develop an understanding of the characteristics of living things.
<ul style="list-style-type: none"> <li>Describe the differences between plants and animals.</li> </ul>
<b>Chapter 1, Lesson 1, Video A, SE page 3; Video B, SE page 4; Lesson 2, Video A, SE page 9; Video B, SE page 10; Lesson 3, Video A, SE page 17; Video B, SE page 18; Video C, SE page 19</b>

4.4 LIFE SCIENCE
4.4.1 By the end of fourth grade, students will develop an understanding of the characteristics of living things.
<ul style="list-style-type: none"> <li>Describe the various structures of plants and animals necessary for survival and reproduction.</li> </ul>
<b>Chapter 1, Lesson 2, Video A, SE page 9; Video B, SE page 10; KnowZone, SE pages 14-15; Lesson 3, Video B, SE page 18; Video C, SE page 19</b>
<b>Chapter 2, KnowZone, SE pages 36-37</b>
<b>Chapter 3, Lesson 1, Video B, SE page 48; KnowZone, SE pages 52-53; Lesson 2, Video B, SE page 56</b>

4.4 LIFE SCIENCE
4.4.1 By the end of fourth grade, students will develop an understanding of the characteristics of living things.
<ul style="list-style-type: none"> <li>Describe how internal stimuli (e.g., hunger) and external stimuli (e.g., changes in the environment) affect behavior of living things.</li> </ul>
<b>Chapter 1, Lesson 2, Video B, SE page 10</b>
<b>Chapter 3, Lesson 1, Video B, SE page 48; Video C, SE page 49</b>

4.4 LIFE SCIENCE
4.4.2 By the end of fourth grade, students will develop an understanding of the life cycles of living things.
<ul style="list-style-type: none"> <li>Describe the life cycle of an organism.</li> </ul>
<b>Level B:</b> <b>Chapter 1, Lesson 3, Video C, SE page 19</b>
<b>See also Level A:</b> <b>Chapter 1, Lesson 3, Video B, SE page 18; Process Skill, SE page 21</b>
<b>See also Level C:</b> <b>Chapter 2, Lesson 2, Video A, SE page 31; KnowZone, SE pages 36-37</b>

4.4 LIFE SCIENCE
4.4.2 By the end of fourth grade, students will develop an understanding of the life cycles of living things.
<ul style="list-style-type: none"> <li>Identify inherited characteristics of living things (e.g., color and number of eyes).</li> </ul>
<b>Level B:</b> <b>Chapter 1, Lesson 1, Video B, SE page 4; Lesson 2, Video C, SE page 11</b>
<b>See also Level C:</b> <b>Chapter 2, Lesson 2, Video C, SE page 33</b>

4.4 LIFE SCIENCE
4.4.2 By the end of fourth grade, students will develop an understanding of the life cycles of living things.
<ul style="list-style-type: none"> <li>Identify learned characteristics of living things (e.g., language or hunting for food).</li> </ul>
<b>Level B:</b> <b>Chapter 1, Lesson 1, Video B, SE page 4; Lesson 2, Video C, SE page 11</b>
<b>See also Level C:</b> <b>Chapter 2, Lesson 2, Video C, SE page 33</b>

4.4 LIFE SCIENCE
4.4.3 By the end of fourth grade, students will develop an understanding of living things and environments.
<ul style="list-style-type: none"> <li>Diagram a food chain.</li> </ul>
<b>Chapter 2, Lesson 2, Video A, SE page 31; Video B, SE page 32; Video C, SE page 33; Process Skill, SE page 35; Lesson 3, Video A, SE page 39; Video B, SE page 40; Video C, SE page 41; Process Skill, SE page 43; LabTime Hands-On Activity 2, TRB pages 33-35, TG page 48</b>

4.4 LIFE SCIENCE
4.4.3 By the end of fourth grade, students will develop an understanding of living things and environments.
<ul style="list-style-type: none"> <li>Explain how environmental changes affect behavior and survival of living things.</li> </ul>
<b>Chapter 1, Lesson 2, Video C, SE page 11; Writing in Science, SE page 13</b> <b>Chapter 3, Lesson 1, Video B, SE page 48; Video C, SE page 49; KnowZone, SE pages 52-53</b>

4.4 LIFE SCIENCE
4.4.3 By the end of fourth grade, students will develop an understanding of living things and environments.
<ul style="list-style-type: none"> <li>Describe how humans and other living things cause both positive and negative changes in their environment.</li> </ul>
<b>Chapter 2, Lesson 1, Video B, SE page 26; Lesson 3, Video C, SE page 41</b> <b>Chapter 3, Lesson 3, Video A, SE page 61; Video B, SE page 62; Video C, SE page 63</b>

4.5 EARTH AND SPACE SCIENCE
4.5.1 By the end of fourth grade, students will develop an understanding of the characteristics of earth materials.
<ul style="list-style-type: none"> <li>Identify characteristics of soils, minerals, rocks, water, and the atmosphere.</li> </ul>
<b>Chapter 4, Lesson 2, Video B, SE page 76; Lesson 3, Video A, SE page 81; Video B, SE page 82; Video C, SE page 83; KnowZone, SE pages 86-87; LabTime Hands-On Activity 4, TRB pages 69-71, TG page 84</b> <b>Chapter 5, Lesson 1, Video C, SE page 93; Lesson 2, Video A, SE page 97</b> <b>Chapter 9, Lesson 2, Video A, SE page 191; Video B, SE page 192; Critical Thinking, SE page 195; Process Skill, SE page 195</b>

4.5 EARTH AND SPACE SCIENCE
4.5.1 By the end of fourth grade, students will develop an understanding of the characteristics of earth materials.
<ul style="list-style-type: none"> <li>List earth materials that are used by humans (e.g., water, fossils fuels, ores, soils).</li> </ul>
<b>Chapter 4, Lesson 2, Video B, SE page 76; Lesson 3, Video A, SE page 81; Video B, SE page 82; Video C, SE page 83; KnowZone, SE pages 86-87; LabTime Hands-On Activity 4, TRB pages 69-71, TG page 84</b> <b>Chapter 5, Lesson 1, Video C, SE page 93; Lesson 2, Video A, SE page 97</b> <b>Chapter 9, Lesson 2, Video A, SE page 191; Video B, SE page 192; Critical Thinking, SE page 195; Process Skill, SE page 195</b>

4.5 EARTH AND SPACE SCIENCE
4.5.1 By the end of fourth grade, students will develop an understanding of the characteristics of earth materials.
<ul style="list-style-type: none"> <li>Select the best earth material for a specific human use (e.g., marble-buildings, clay-pottery, coal-heat).</li> </ul>
<b>Chapter 4, Lesson 3, Video A, SE page 81; Video B, SE page 82; Video C, SE page 83; Critical Thinking, SE page 85; Writing in Science, SE page 85; Process Skill, SE page 85; KnowZone, SE page 86-87</b> <b>Chapter 5, Lesson 1, Video C, SE page 93; Lesson 2, Video A, SE page 97</b> <b>Chapter 9, Lesson 3, Video A, SE page 191; Video B, SE page 192; Process Skill, SE page 195</b>

4.5 EARTH AND SPACE SCIENCE
4.5.1 By the end of fourth grade, students will develop an understanding of the characteristics of earth materials.
<ul style="list-style-type: none"> <li>Describe an ancient environment based on fossil evidence.</li> </ul>
<b>Chapter 1, Lesson 1, Video C, SE page 5; Math in Science, SE page 7; Process Skill, SE page 7</b> <b>Chapter 4, Lesson 2, Video B, SE page 76; LabTime Hands-On Activity 4, TRB pages 69-71, TG page 84</b>

4.5 EARTH AND SPACE SCIENCE
4.5.2 By the end of fourth grade, students will develop an understanding of objects in the sky.
<ul style="list-style-type: none"> <li>Observe and describe how objects move in patterns (e.g., sun, moon, stars, and clouds).</li> </ul>
<b>Chapter 6, Lesson 1, Video B, SE page 114; Video C, SE page 115; Process Skill, SE page 117</b>

4.5 EARTH AND SPACE SCIENCE
4.5.3 By the end of fourth grade, students will develop an understanding of the changes in the earth and sky.
<ul style="list-style-type: none"> <li>Describe how slow processes (e.g., erosion) and rapid processes (e.g., earthquakes), change the earth's surface.</li> </ul>
<b>Chapter 4, Lesson 1, Video B, SE page 70; Video C, SE page 71; Lesson 2, Video A, SE page 75</b>

4.5 EARTH AND SPACE SCIENCE
4.5.3 By the end of fourth grade, students will develop an understanding of the changes in the earth and sky.
<ul style="list-style-type: none"> <li>Describe and measure changes in weather (e.g., temperature, precipitation, and wind direction and speed).</li> </ul>
<b>Chapter 5, Lesson 1, Video A, SE page 91; Video B, SE page 92; Lesson 2, Video B, SE page 98; Video C, SE page 99; Process Skill, SE page 101; Lesson 3, Video C, SE page 107; LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102</b>

4.6 SCIENCE AND TECHNOLOGY
4.6.1 By the end of fourth grade, students will develop an understanding of technological design.
<ul style="list-style-type: none"> <li>Identify a simple problem.</li> </ul>
<b>Chapter 6, Lesson 1 Process Skill, SE page 117</b> <b>Chapter 9, Lesson 2 Process Skill, SE page 189; ; LabTime Hands-On Activity, TRB pages 159-161, TG page 174</b>

4.6 SCIENCE AND TECHNOLOGY
4.6.1 By the end of fourth grade, students will develop an understanding of technological design.
<ul style="list-style-type: none"> <li>Propose a solution to a simple problem.</li> </ul>
<b>Chapter 6, Lesson 1 Process Skill, SE page 117</b>
<b>Chapter 9, Lesson 2 Process Skill, SE page 189; ; LabTime Hands-On Activity, TRB pages 159-161, TG page 174</b>

4.6 SCIENCE AND TECHNOLOGY
4.6.1 By the end of fourth grade, students will develop an understanding of technological design.
<ul style="list-style-type: none"> <li>Implement the implementation.</li> </ul>
<b>Chapter 6, Lesson 1 Process Skill, SE page 117</b>
<b>Chapter 9, Lesson 2 Process Skill, SE page 189; ; LabTime Hands-On Activity, TRB pages 159-161, TG page 174</b>

4.6 SCIENCE AND TECHNOLOGY
4.6.1 By the end of fourth grade, students will develop an understanding of technological design.
<ul style="list-style-type: none"> <li>Evaluate the implementation.</li> </ul>
<b>Chapter 6, Lesson 1 Process Skill, SE page 117</b>
<b>Chapter 9, Lesson 2 Process Skill, SE page 189; ; LabTime Hands-On Activity, TRB pages 159-161, TG page 174</b>

4.6 SCIENCE AND TECHNOLOGY
4.6.1 By the end of fourth grade, students will develop an understanding of technological design.
<ul style="list-style-type: none"> <li>Communicate the problem, design, and solution.</li> </ul>
<b>Chapter 6, Lesson 1 Process Skill, SE page 117</b>
<b>Chapter 9, Lesson 2 Process Skill, SE page 189; ; LabTime Hands-On Activity, TRB pages 159-161, TG page 174</b>

4.6 SCIENCE AND TECHNOLOGY
4.6.2 By the end of fourth grade, students will develop an understanding of science and technology.
<ul style="list-style-type: none"> <li>Identify tools or techniques that use scientific knowledge to solve problems.</li> </ul>
<b>Chapter 1, LabTime Hands-On Activity 1, TRB pages 15-17, TG page 30</b>
<b>Chapter 2, LabTime Hands-On Activity 2, TRB pages 33-35, TG page 48</b>
<b>Chapter 3, LabTime Hands-On Activity 3, TRB pages 51-53, TG page 66</b>
<b>Chapter 4, LabTime Hands-On Activity 4, TRB pages 69-71, TG page 84</b>
<b>Chapter 5, LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102</b>
<b>Chapter 6, LabTime Hands-On Activity 6, TRB pages 105-107, TG page 120</b>
<b>Chapter 7, LabTime Hands-On Activity 7, TRB pages 123-125, TG page 138</b>
<b>Chapter 8, LabTime Hands-On Activity 8, TRB pages 141-143, TG page 156</b>
<b>Chapter 9, LabTime Hands-On Activity 9, TRB pages 159-161, TG page 174</b>

4.6 SCIENCE AND TECHNOLOGY
4.6.2 By the end of fourth grade, students will develop an understanding of science and technology.
<ul style="list-style-type: none"> <li>Identify, investigate, and solve a problem in the home or school.</li> </ul>
<b>Chapter 1, Lesson 3, Critical Thinking, SE page 21</b>
<b>Chapter 2, Lesson 1, Process Skill, SE page 29; Lesson 3, Critical Thinking, SE page 43; Process Skill, SE page 43</b>
<b>Chapter 3, Lesson 2,m Critical Thinking, SE page 59; Lesson 3, Critical Thinking, SE page 65; Process Skill, SE page 65</b>
<b>Chapter 4, Lesson 3, Process Skill, SE pages 85</b>

4.6 SCIENCE AND TECHNOLOGY
4.6.3 By the end of fourth grade, students will develop an understanding of the abilities to distinguish between natural objects and objects made by humans.
<ul style="list-style-type: none"> <li>Classify an object as natural or manufactured.</li> </ul>
<b>Chapter 1, KnowZone, SE pages 14-15</b> <b>Chapter 3, Lesson 1, Video C, SE page 49; Lesson 2, Video C, SE page 57</b> <b>Chapter 5, Lesson 2, Video C, SE page 99; KnowZone, SE pages 102-103</b> <b>Chapter 6, Lesson 3, Video A, SE page 125; Video B, SE page 126; Video C, SE page 127; KnowZone, SE pages 130-131</b> <b>Chapter 7, Lesson 7, KnowZone, SE pages 140-141</b> <b>Chapter 8, Lesson 2, Video C, SE page 165; KnowZone, SE pages 168-169; Lesson 3, Video C, SE page 173</b> <b>Chapter 9, Lesson 2, Video B, SE page 186; Video C, SE page 187; Lesson 3, Video A, SE page 191; Video B, SE page 192</b>

4.7 SCIENCE IN PERSONAL AND SOCIAL PERSPECTIVES
4.7.1 By the end of fourth grade, students will develop an understanding of personal health.
<ul style="list-style-type: none"> <li>Explain how the body uses food and how various foods contribute to health.</li> </ul>
<b>See Level A:</b> <b>Chapter 3, Lesson 1, Video C, SE page 49; Critical Thinking, SE page 51; Process Skill, SE page 51</b>

4.7 SCIENCE IN PERSONAL AND SOCIAL PERSPECTIVES
4.7.1 By the end of fourth grade, students will develop an understanding of personal health.
<ul style="list-style-type: none"> <li>Describe how different substances (e.g., tobacco, alcohol, and drugs) can damage the body and alter how it functions.</li> </ul>
<b>This concept is not covered at this level.</b>

4.7 SCIENCE IN PERSONAL AND SOCIAL PERSPECTIVES
4.7.2 By the end of fourth grade, students will develop an understanding of the types of resources.
<ul style="list-style-type: none"> <li>List examples of resources which are basic materials (e.g., air, water, and soil).</li> </ul>
<b>Chapter 4, Lesson 2, Video B, SE page 76; Lesson 3, Video A, SE page 81; Video B, SE page 82; Video C, SE page 83; KnowZone, SE pages 86-87</b> <b>Chapter 5, Lesson 1, Video C, SE page 93; Lesson 2, Video A, SE page 97</b> <b>Chapter 9, Lesson 3, Video A, SE page 191; Video B, SE page 192; Critical Thinking, SE page 195; Process Skill, SE page 195</b>

4.7 SCIENCE IN PERSONAL AND SOCIAL PERSPECTIVES
4.7.2 By the end of fourth grade, students will develop an understanding of the types of resources.
<ul style="list-style-type: none"> <li>List examples of resources produced from basic materials (e.g., food, fuel, and building materials).</li> </ul>
<b>Chapter 4, Lesson 2, Video B, SE page 76; Lesson 3, Video A, SE page 81; Video B, SE page 82; Video C, SE page 83; KnowZone, SE pages 86-87</b> <b>Chapter 5, Lesson 1, Video C, SE page 93; Lesson 2, Video A, SE page 97</b> <b>Chapter 9, Lesson 3, Video A, SE page 191; Video B, SE page 192; Critical Thinking, SE page 195; Process Skill, SE page 195</b>

4.7 SCIENCE IN PERSONAL AND SOCIAL PERSPECTIVES
4.7.2 By the end of fourth grade, students will develop an understanding of the types of resources.
<ul style="list-style-type: none"> <li>List examples of resources which are intangible materials (e.g., beauty, security, and quiet places).</li> </ul>
<b>Chapter 2, Lesson 1, Critical Thinking, SE page 29</b> <b>Chapter 3, Lesson 2, Video A, SE page 55; Video B, SE page 56; Video C, SE page 57</b>

4.7 SCIENCE IN PERSONAL AND SOCIAL PERSPECTIVES
4.7.2 By the end of fourth grade, students will develop an understanding of the types of resources.
<ul style="list-style-type: none"> <li>• Research and report on the supply of various resources.</li> </ul>
<b>Chapter 4, Lesson 2, Video B, SE page 76; Lesson 3, Video A, SE page 81; Video B, SE page 82; Video C, SE page 83; KnowZone, SE pages 86-87</b> <b>Chapter 5, Lesson 1, Video C, SE page 93; Lesson 2, Video A, SE page 97</b> <b>Chapter 9, Lesson 3, Video A, SE page 191; Video B, SE page 192; Critical Thinking, SE page 195; Process Skill, SE page 195</b>

4.7 SCIENCE IN PERSONAL AND SOCIAL PERSPECTIVES
4.7.3 By the end of fourth grade, students will develop an understanding of environmental changes.
<ul style="list-style-type: none"> <li>• Distinguish between natural environmental changes and human influenced environmental changes.</li> </ul>
<b>Chapter 2, Lesson 1, Video B, SE page 26; Lesson 2, Critical Thinking, SE page 25; Lesson 3, Video C, SE page 41; Critical Thinking, SE page 43; Process Skill, SE page 43</b> <b>Chapter 3, Lesson 2, Video C, SE page 57; Critical Thinking, SE page 59; Lesson 3, Video A, SE page 61; Video B, SE page 62; Video C, SE page 63; Critical Thinking, SE page 65; Process Skill, SE page 65; LabTime Hands-On Activity 3, TRB pages 51-53, TG page 66</b>

4.7 SCIENCE IN PERSONAL AND SOCIAL PERSPECTIVES
4.7.4 By the end of fourth grade, students will develop an understanding of how science and technology helps communities resolve problems.
<ul style="list-style-type: none"> <li>• Research and explain how science and technology affect the quality of life.</li> </ul>
<b>Chapter 4, Lesson 3, Video B, SE page 82; Video C, SE page 83</b> <b>Chapter 5, Lesson 2, Video C, SE page 99; KnowZone, SE pages 102-103</b> <b>Chapter 6, Lesson 3, Video A, SE page 125; Video B, SE page 126; Video C, SE page 27; KnowZone, SE pages 130-131</b> <b>Chapter 7, KnowZone, SE pages 140-141</b> <b>Chapter 8, Lesson 2, Video C, SE page 165; KnowZone, SE pages 168-169; Lesson 3, Video C, SE page 173</b> <b>Chapter 9, Lesson 2, Video C, SE page 187; Lesson 3, Video A, SE page 191; Video B, SE page 192; Process Skill, SE page 195; KnowZone, SE pages 196-197</b>

4.8 HISTORY AND NATURE OF SCIENCE
4.8.1 By the end of fourth grade, students will develop an understanding of science as a human endeavor.
<ul style="list-style-type: none"> <li>• Research and report on the contributions to science and technology throughout history by men and women scientists of diverse cultures.</li> </ul>
<b>Chapter 4, Lesson 2, Video C, SE page 77</b> <b>Chapter 6, Lesson 3, Video A, SE page 125; Video B, SE page 126; Video C, SE page 127; Math in Science, SE page 129; KnowZone, SE pages 130-131</b> <b>Chapter 7, Lesson 3, Video A, SE page 149</b> <b>Chapter 8 KnowZone, SE pages 168-169</b> <b>Chapter 9 KnowZone, SE pages 196-197</b>

4.8 HISTORY AND NATURE OF SCIENCE
4.8.1 By the end of fourth grade, students will develop an understanding of science as a human endeavor.
<ul style="list-style-type: none"> <li>• Research and report on how science is used in different careers.</li> </ul>
<b>Chapter 2, Lesson 1, Process Skill, SE page 29; Lesson 3, Process Skill, SE page 43</b> <b>Chapter 5, Lesson 2, Video C, SE page 99</b> <b>Chapter 6, Lesson 2, Video C, SE page 121</b>



**4.8 HISTORY AND NATURE OF SCIENCE**

**4.8.1** By the end of fourth grade, students will develop an understanding of science as a human endeavor.

- Research and report on how current scientific discoveries illustrate that science is an ongoing process.

**Chapter 1, Lesson 1, Process Skill, SE page 7**

**Chapter 2, Lesson 3, Process Skill, SE page 43**

**Chapter 3, Lesson 3, Critical Thinking, SE page 65**

**Chapter 4, Lesson 1, Video B, SE page 70; Video C, SE page 71; Critical Thinking, SE page 73**

**Chapter 5, KnowZone, SE pages 102-103**

**Chapter 6, Lesson 2, Video C, SE page 121; Lesson 3. Video A, SE page 125; Video B, SE page 126; Video C, SE page 127; Critical Thinking, SE page 129; Process Skill, SE page 129**

**Chapter 7, KnowZone, SE pages 140-141**

**Chapter 9, Lesson 3, Video B, SE page 192**

***SRA Snapshots Video Science™: Level C***  
**correlation to**  
**Nebraska Science Standards**  
**Grade 5**

*SRA Snapshots Video Science™* consists of four interdependent components. Each level has four program DVDs that provide engaging video lessons. The student edition (**SE**) provides student friendly text that reinforces the concepts introduced in the video. The Teacher’s Resource Book (**TRB**) provides support activities in a blackline master format. The Teacher’s Guide (**TG**) provides lesson planning, differentiated instruction activities, and answers to all student activities in the Student Edition.

**KEY:**

<b>Reference</b>	<b>Program Component</b>
<b>Video</b>	Video lessons on program DVDs
<b>SE</b>	Student Edition
<b>TRB</b>	Teacher’s Resource Book
<b>TG</b>	Teacher’s Guide

**8.1 UNIFYING CONCEPTS AND PROCESSES**

8.1.1 By the end of eighth grade, students will develop an understanding of systems, order, and organization.

- Recognize and describe key parts and functions of any system.

Chapter 1, Lesson 1, Video A, SE page 3; Video B, SE page 4; Video C, SE page 5; Lesson 2, Video A, SE page 9; Video B, SE page 10; Video C, SE page 11; Lesson 3, Video A, SE page 15; Video B, SE page 16; Video C, SE page 17; KnowZone, SE pages 20-21; LabTime Hands-On Activity 1, TRB pages 15-17, TG page 30

Chapter 2, Lesson 1, Video A, SE page 25; Video B, SE page 26; Video C, SE page 27; Lesson 2, Video A, SE page 31; Video B, SE page 32; Video C, SE page 33; KnowZone, SE pages 36-37; Lesson 3, Video A, SE page 39; Video B, SE page 40; Video C, SE page 41; LabTime Hands-On Activity 2, TRB pages 33-35, TG page 48

Chapter 3, Lesson 1, Video A, SE page 47; Video B, SE page 48; Video C, SE page 49; Lesson 2, Video B, SE page 53; Video B, SE page 54; Video C, SE page 55; KnowZone, SE pages 58-59; Lesson 3, Video A, SE page 61; Video B, SE page 62; Video C, SE page 63; LabTime Hands-On Activity 3, TRB pages 51-53, TG page 66

Chapter 4, Lesson 1, Video A, SE page 69; Video B, SE page 70; Video C, SE page 71; KnowZone, SE page 74-75; Lesson 2, Video A, SE page 77; Video B, SE page 78; Video C, SE page 79; Lesson 3, Video A, SE page 83; Video B, SE page 84; Video C, SE page 85; LabTime Hands-On Activity 4, TRB pages 69-71, TG page 84

Chapter 5, Lesson 1, Video A, SE page 91; Video B, SE page 92; Video C, SE page 93; Lesson 2, Video A, SE page 97; Video B, SE page 98; Video C, SE page 99; Lesson 3, Video A, SE page 103; Video B, SE page 104; Video C, SE page 105; KnowZone, SE pages 108-109; LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102

Chapter 6, Lesson 1, Video A, SE page 113; Video B, SE page 114; Video C, SE page 115; KnowZone, SE page 118-119; Lesson 2, Video A, SE page 121; Video B, SE page 122; Video C, SE page 123; Lesson 3, Video A, SE page 127; Video B, SE page 128; Video C, SE page 129; LabTime Hands-On Activity 6, TRB pages 105-107, TG page 120

Chapter 7, Lesson 1, Video A, SE page 135; Video B, SE page 136; Video C, SE page 137; KnowZone, SE pages 140-141; Lesson 2, Video B, SE page 143; Video B, SE page 144; Video C, SE page 145; Lesson 3, Video A, SE page 149; Video B, SE page 150; Video C, SE page 151; LabTime Hands-On Activity 7, TRB pages 123-125, TG page 138

Chapter 8, Lesson 1, Video A, SE page 157; Video B, SE page 158; Video C, SE page 159; Lesson 2, Video A, SE page 163; Video B, SE page 164; Video C, SE page 165; KnowZone, SE pages 168-169; Lesson 3, Video A, SE page 171; Video B, SE page 172; Video C, SE page 173; LabTime Hands-On Activity 8, TRB pages 141-143, TG page 156

Chapter 9, Lesson 1, Video A, SE page 179; Video B, SE page 180; Video C, SE page 181; KnowZone, SE pages 184-185; Lesson 2, Video A, SE page 187; Video B, SE page 188; Video C, SE page 189; Lesson 3, Video A, SE page 193; Video B, SE page 194; Video C, SE page 195; LabTime Hands-On Activity 9, TRB pages 159-161, TG page 174

8.1 UNIFYING CONCEPTS AND PROCESSES
8.1.1 By the end of eighth grade, students will develop an understanding of systems, order, and organization.
<ul style="list-style-type: none"> <li>Analyze and predict the interactions within a system and between systems.</li> </ul>
<p><b>Chapter 1, Lesson 1, Video A, SE page 3; Video B, SE page 4; Video C, SE page 5; Lesson 2, Video A, SE page 9; Video B, SE page 10; Video C, SE page 11; Lesson 3, Video A, SE page 15; Video B, SE page 16; Video C, SE page 17; KnowZone, SE pages 20-21; LabTime Hands-On Activity 1, TRB pages 15-17, TG page 30</b></p> <p><b>Chapter 2, Lesson 1, Video A, SE page 25; Video B, SE page 26; Video C, SE page 27; Lesson 2, Video A, SE page 31; Video B, SE page 32; Video C, SE page 33; KnowZone, SE pages 36-37; Lesson 3, Video A, SE page 39; Video B, SE page 40; Video C, SE page 41; LabTime Hands-On Activity 2, TRB pages 33-35, TG page 48</b></p> <p><b>Chapter 3, Lesson 1, Video A, SE page 47; Video B, SE page 48; Video C, SE page 49; Lesson 2, Video B, SE page 53; Video B, SE page 54; Video C, SE page 55; KnowZone, SE pages 58-59; Lesson 3, Video A, SE page 61; Video B, SE page 62; Video C, SE page 63; LabTime Hands-On Activity 3, TRB pages 51-53, TG page 66</b></p> <p><b>Chapter 4, Lesson 1, Video A, SE page 69; Video B, SE page 70; Video C, SE page 71; KnowZone, SE page 74-75; Lesson 2, Video A, SE page 77; Video B, SE page 78; Video C, SE page 79; Lesson 3, Video A, SE page 83; Video B, SE page 84; Video C, SE page 85; LabTime Hands-On Activity 4, TRB pages 69-71, TG page 84</b></p> <p><b>Chapter 5, Lesson 1, Video A, SE page 91; Video B, SE page 92; Video C, SE page 93; Lesson 2, Video A, SE page 97; Video B, SE page 98; Video C, SE page 99; Lesson 3, Video A, SE page 103; Video B, SE page 104; Video C, SE page 105; KnowZone, SE pages 108-109; LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102</b></p> <p><b>Chapter 6, Lesson 1, Video A, SE page 113; Video B, SE page 114; Video C, SE page 115; KnowZone, SE page 118-119; Lesson 2, Video A, SE page 121; Video B, SE page 122; Video C, SE page 123; Lesson 3, Video A, SE page 127; Video B, SE page 128; Video C, SE page 129; LabTime Hands-On Activity 6, TRB pages 105-107, TG page 120</b></p> <p><b>Chapter 7, Lesson 1, Video A, SE page 135; Video B, SE page 136; Video C, SE page 137; KnowZone, SE pages 140-141; Lesson 2, Video B, SE page 143; Video B, SE page 144; Video C, SE page 145; Lesson 3, Video A, SE page 149; Video B, SE page 150; Video C, SE page 151; LabTime Hands-On Activity 7, TRB pages 123-125, TG page 138</b></p> <p><b>Chapter 8, Lesson 1, Video A, SE page 157; Video B, SE page 158; Video C, SE page 159; Lesson 2, Video A, SE page 163; Video B, SE page 164; Video C, SE page 165; KnowZone, SE pages 168-169; Lesson 3, Video A, SE page 171; Video B, SE page 172; Video C, SE page 173; LabTime Hands-On Activity 8, TRB pages 141-143, TG page 156</b></p> <p><b>Chapter 9, Lesson 1, Video A, SE page 179; Video B, SE page 180; Video C, SE page 181; KnowZone, SE pages 184-185; Lesson 2, Video A, SE page 187; Video B, SE page 188; Video C, SE page 189; Lesson 3, Video A, SE page 193; Video B, SE page 194; Video C, SE page 195; LabTime Hands-On Activity 9, TRB pages 159-161, TG page 174</b></p>

8.1 UNIFYING CONCEPTS AND PROCESSES
8.1.1 By the end of eighth grade, students will develop an understanding of systems, order, and organization.
<ul style="list-style-type: none"> <li>Create and use classification schemes.</li> </ul>
<p><b>Chapter 1, KnowZone, SE pages 20-21</b></p> <p><b>Chapter 2, Lesson 1, Video A, SE page 25; Video B, SE page 26; Critical Thinking, SE page 29; Writing in Science, SE page 29; Process Skill, SE page 29</b></p> <p><b>Chapter 4, Lesson 3, Video A, SE page 83; Video B, SE page 84</b></p> <p><b>Chapter 6, Lesson 1, Process Skill, SE page 117</b></p> <p><b>Chapter 8, Lesson 1, Process Skill, SE page 161</b></p> <p><b>Classification, SE page 202</b></p>

8.1 UNIFYING CONCEPTS AND PROCESSES
8.1.1 By the end of eighth grade, students will develop an understanding of systems, order, and organization.
<ul style="list-style-type: none"> <li>Interpret cause and effect relationships within and between systems.</li> </ul>
<p><b>Chapter 1, Lesson 1, Video A, SE page 3; Video B, SE page 4; Video C, SE page 5; Lesson 2, Video A, SE page 9; Video B, SE page 10; Video C, SE page 11; Lesson 3, Video A, SE page 15; Video B, SE page 16; Video C, SE page 17; KnowZone, SE pages 20-21; LabTime Hands-On Activity 1, TRB pages 15-17, TG page 30</b></p> <p><b>Chapter 2, Lesson 1, Video A, SE page 25; Video B, SE page 26; Video C, SE page 27; Lesson 2, Video A, SE page 31; Video B, SE page 32; Video C, SE page 33; KnowZone, SE pages 36-37; Lesson 3, Video A, SE page 39; Video B, SE page 40; Video C, SE page 41; LabTime Hands-On Activity 2, TRB pages 33-35, TG page 48</b></p> <p><b>Chapter 3, Lesson 1, Video A, SE page 47; Video B, SE page 48; Video C, SE page 49; Lesson 2, Video B, SE page 53; Video B, SE page 54; Video C, SE page 55; KnowZone, SE pages 58-59; Lesson 3, Video A, SE page 61; Video B, SE page 62; Video C, SE page 63; LabTime Hands-On Activity 3, TRB pages 51-53, TG page 66</b></p> <p><b>Chapter 4, Lesson 1, Video A, SE page 69; Video B, SE page 70; Video C, SE page 71; KnowZone, SE page 74-75; Lesson 2, Video A, SE page 77; Video B, SE page 78; Video C, SE page 79; Lesson 3, Video A, SE page 83; Video B, SE page 84; Video C, SE page 85; LabTime Hands-On Activity 4, TRB pages 69-71, TG page 84</b></p> <p><b>Chapter 5, Lesson 1, Video A, SE page 91; Video B, SE page 92; Video C, SE page 93; Lesson 2, Video A, SE page 97; Video B, SE page 98; Video C, SE page 99; Lesson 3, Video A, SE page 103; Video B, SE page 104; Video C, SE page 105; KnowZone, SE pages 108-109; LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102</b></p> <p><b>Chapter 6, Lesson 1, Video A, SE page 113; Video B, SE page 114; Video C, SE page 115; KnowZone, SE page 118-119; Lesson 2, Video A, SE page 121; Video B, SE page 122; Video C, SE page 123; Lesson 3, Video A, SE page 127; Video B, SE page 128; Video C, SE page 129; LabTime Hands-On Activity 6, TRB pages 105-107, TG page 120</b></p> <p><b>Chapter 7, Lesson 1, Video A, SE page 135; Video B, SE page 136; Video C, SE page 137; KnowZone, SE pages 140-141; Lesson 2, Video B, SE page 143; Video B, SE page 144; Video C, SE page 145; Lesson 3, Video A, SE page 149; Video B, SE page 150; Video C, SE page 151; LabTime Hands-On Activity 7, TRB pages 123-125, TG page 138</b></p> <p><b>Chapter 8, Lesson 1, Video A, SE page 157; Video B, SE page 158; Video C, SE page 159; Lesson 2, Video A, SE page 163; Video B, SE page 164; Video C, SE page 165; KnowZone, SE pages 168-169; Lesson 3, Video A, SE page 171; Video B, SE page 172; Video C, SE page 173; LabTime Hands-On Activity 8, TRB pages 141-143, TG page 156</b></p> <p><b>Chapter 9, Lesson 1, Video A, SE page 179; Video B, SE page 180; Video C, SE page 181; KnowZone, SE pages 184-185; Lesson 2, Video A, SE page 187; Video B, SE page 188; Video C, SE page 189; Lesson 3, Video A, SE page 193; Video B, SE page 194; Video C, SE page 195; LabTime Hands-On Activity 9, TRB pages 159-161, TG page 174</b></p>

8.1 UNIFYING CONCEPTS AND PROCESSES
8.1.2 By the end of eighth grade, students will develop an understanding of evidence, models, and explanation.
<ul style="list-style-type: none"> <li>Collect, manipulate, and analyze data from an experiment.</li> </ul>
<p><b>Chapter 1, LabTime Hands-On Activity 1, TRB pages 15-17, TG page 30</b></p> <p><b>Chapter 2, LabTime Hands-On Activity 2, TRB pages 33-35, TG page 48</b></p> <p><b>Chapter 3, LabTime Hands-On Activity 3, TRB pages 51-53, TG page 66</b></p> <p><b>Chapter 4, LabTime Hands-On Activity 4, TRB pages 69-71, TG page 84</b></p> <p><b>Chapter 5, Lesson 2, Process Skill, SE page 101; LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102</b></p> <p><b>Chapter 6, LabTime Hands-On Activity 6, TRB pages 105-107, TG page 120</b></p> <p><b>Chapter 7, LabTime Hands-On Activity 7, TRB pages 123-125, TG page 138</b></p> <p><b>Chapter 8, LabTime Hands-On Activity 8, TRB pages 141-143, TG page 156</b></p> <p><b>Chapter 9, Lesson 2, Process Skill, SE page 191; LabTime Hands-On Activity 9, TRB pages 159-161, TG page 174</b></p>

8.1 UNIFYING CONCEPTS AND PROCESSES
8.1.2 By the end of eighth grade, students will develop an understanding of evidence, models, and explanation.
<ul style="list-style-type: none"> <li>Observe and develop models (e.g., physical, mathematical, mental, and computer simulations).</li> </ul>
<p><b>Chapter 1, Lesson 1, Process Skill, SE page 7</b></p> <p><b>Chapter 4, Lesson 3, Process Skill, SE page 87</b></p> <p><b>Chapter 5, LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102</b></p> <p><b>Chapter 9, Lesson 1, Process Skill, SE page 183</b></p>

8.1 UNIFYING CONCEPTS AND PROCESSES
8.1.2 By the end of eighth grade, students will develop an understanding of evidence, models, and explanation.
<ul style="list-style-type: none"> <li>Interpret and explain results of experimentation.</li> </ul>
<b>Chapter 1, Lesson 2, Process Skill, SE page 13; LabTime Hands-On Activity 1, TRB pages 15-17, TG page 30</b> <b>Chapter 2, LabTime Hands-On Activity 2, TRB pages 33-35, TG page 48</b> <b>Chapter 3, Lesson 1, Process Skill, SE page 51; Lesson 3, Process Skill, SE page 65; LabTime Hands-On Activity 3, TRB pages 51-53, TG page 66</b> <b>Chapter 4, Lesson 2, Process Skill, 81; LabTime Hands-On Activity 4, TRB pages 69-71, TG page 84</b> <b>Chapter 5, LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102</b> <b>Chapter 6, LabTime Hands-On Activity 6, TRB pages 105-107, TG page 120</b> <b>Chapter 7, Lesson 1, Process Skill, SE page 139; Lesson 2, Process Skill, SE page 147; LabTime Hands-On Activity 7, TRB pages 123-125, TG page 138</b> <b>Chapter 8, LabTime Hands-On Activity 8, TRB pages 141-143, TG page 156</b> <b>Chapter 9, Lesson 3, Process Skill, SE page 197; LabTime Hands-On Activity 9, TRB pages 159-161, TG page 174</b>

8.1 UNIFYING CONCEPTS AND PROCESSES
8.1.2 By the end of eighth grade, students will develop an understanding of evidence, models, and explanation.
<ul style="list-style-type: none"> <li>Analyze whether or not investigative procedures and conclusions are reasonable.</li> </ul>
<b>Chapter 1, Lesson 2, Process Skill, SE page 13; LabTime Hands-On Activity 1, TRB pages 15-17, TG page 30</b> <b>Chapter 2, LabTime Hands-On Activity 2, TRB pages 33-35, TG page 48</b> <b>Chapter 3, Lesson 1, Process Skill, SE page 51; Lesson 3, Process Skill, SE page 65; LabTime Hands-On Activity 3, TRB pages 51-53, TG page 66</b> <b>Chapter 4, Lesson 2, Process Skill, 81; LabTime Hands-On Activity 4, TRB pages 69-71, TG page 84</b> <b>Chapter 5, LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102</b> <b>Chapter 6, LabTime Hands-On Activity 6, TRB pages 105-107, TG page 120</b> <b>Chapter 7, Lesson 1, Process Skill, SE page 139; Lesson 2, Process Skill, SE page 147; LabTime Hands-On Activity 7, TRB pages 123-125, TG page 138</b> <b>Chapter 8, LabTime Hands-On Activity 8, TRB pages 141-143, TG page 156</b> <b>Chapter 9, Lesson 3, Process Skill, SE page 197; LabTime Hands-On Activity 9, TRB pages 159-161, TG page 174</b>

8.1 UNIFYING CONCEPTS AND PROCESSES
8.1.3 By the end of eighth grade, students will develop an understanding of change, constancy, and measurement.
<ul style="list-style-type: none"> <li>Select and use appropriate measurement units.</li> </ul>
<b>Chapter 1, LabTime Hands-On Activity 1, TRB page 15, TG page 30</b> <b>Chapter 5, Lesson 3, Process Skill, SE page 107; LabTime Hands-On Activity 5, TRB page 87, TG page 102</b> <b>Chapter 7, Lesson 2, Video C, SE page 165; LabTime Hands-On Activity 7, TRB page 123, TG page 138</b> <b>Chapter 8, LabTime Hands-On Activity 8, TRB page 141, TG page 156</b> <b>Chapter 9, Lesson 2, Process Skill, SE page 191</b> <b>The Metric System, SE page 200-201</b>

8.1 UNIFYING CONCEPTS AND PROCESSES
8.1.3 By the end of eighth grade, students will develop an understanding of change, constancy, and measurement.
<ul style="list-style-type: none"> <li>Quantify changes in systems (e.g., magnitude, direction, and rate).</li> </ul>
<p><b>Chapter 1, Lesson 1, Process Skill, SE page 7</b>  <b>Chapter 2, Lesson 1, Video B, SE page 26; Process Skill, SE page 29; Lesson 2, Video A, SE page 31; Video B, SE page 32; Video C, SE page 33; Process Skill, SE page 35</b>  <b>Chapter 3, Lesson 3, Video A, SE page 61; Video B, SE page 62</b>  <b>Chapter 4, Lesson 2, Video C, SE page 77; LabTime Hands-On Activity 4, TRB pages 69-71, TG page 84</b>  <b>Chapter 5, Lesson 1, Video A, SE page 91; Video B, SE page 92; Video C, SE page 93; Lesson 2, Video B, SE page 100; LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102</b>  <b>Chapter 6, Lesson 1, Video A, SE page 113; Video B, SE page 114; Video C, SE page 115; Lesson 2, Video A, SE page 119; Video B, SE page 120; Video C, SE page 121; Lesson 3, Video A, SE page 127; LabTime Hands-On Activity 6, TRB pages 105-107, TG page 120</b>  <b>Chapter 7, Lesson 1, video C, SE page 137; Lesson 2, Video A, SE page 144; Video C, SE page 145; Lesson 3, Video A, SE page 149; Video B, SE page 150; Video C, SE page 151</b>  <b>Chapter 8, Lesson 3, Video B, SE page 172; Video C, SE page 173</b>  <b>Chapter 9, Lesson 1, Video A, SE page 179; Video B, SE page 180; Video C, SE page 181; Lesson 2, Video A, SE page 187; Video B, SE page 188; Video C, SE page 189; Lesson 3, Video A, SE page 193; Video B, SE page 194; Video C, SE page 195</b></p>

8.1 UNIFYING CONCEPTS AND PROCESSES
8.1.3 By the end of eighth grade, students will develop an understanding of change, constancy, and measurement.
<ul style="list-style-type: none"> <li>Apply English and metric systems of measurements.</li> </ul>
<p><b>Chapter 1, LabTime Hands-On Activity 1, TRB page 15, TG page 30</b>  <b>Chapter 5, Lesson 3, Process Skill, SE page 107; LabTime Hands-On Activity 5, TRB page 87, TG page 102</b>  <b>Chapter 7, Lesson 2, Video C, SE page 165; LabTime Hands-On Activity 7, TRB page 123, TG page 138</b>  <b>Chapter 8, LabTime Hands-On Activity 8, TRB page 141, TG page 156</b>  <b>Chapter 9, Lesson 2, Process Skill, SE page 191</b>  <b>The Metric System, SE page 200-201</b></p>

8.1 UNIFYING CONCEPTS AND PROCESSES
8.1.3 By the end of eighth grade, students will develop an understanding of change, constancy, and measurement.
<ul style="list-style-type: none"> <li>Investigate and describe changes in terms of scale, rate, and pattern.</li> </ul>
<p><b>Chapter 1, Lesson 1, Process Skill, SE page 7</b>  <b>Chapter 6, KnowZone, SE pages 118-119; Lesson 2, Video A, SE page 121; Video B, SE page 122; Video C, SE page 123</b>  <b>Chapter 9, Lesson 2, Video A, SE page 187; Video B, SE page 188; Video C, SE page 189; Process Skill, SE page 191</b></p>

8.1 UNIFYING CONCEPTS AND PROCESSES
8.1.4 By the end of eighth grade, students will develop an understanding of form and function.
<ul style="list-style-type: none"> <li>Demonstrate how the design of an object makes it possible for that object to perform a specialized task (e.g., a bicycle or an artificial heart).</li> </ul>
<p><b>Chapter 1, Lesson 2, Video A, SE page 9; Lesson 3, Video A, SE page 15</b></p>

<b>8.2 SCIENCE AS INQUIRY</b>
8.2.1 By the end of eighth grade, students will develop the abilities needed to do scientific inquiry.
<ul style="list-style-type: none"> <li>Identify questions and form hypotheses that can be examined through scientific investigations.</li> </ul>
<b>Chapter 1, Lesson 2, Process Skill, SE page 13; LabTime Hands-On Activity 1, TRB pages 15-17, TG page 30</b> <b>Chapter 2, LabTime Hands-On Activity 2, TRB pages 33-35, TG page 48</b> <b>Chapter 3, Lesson 1, Process Skill, SE page 51; Lesson 3, Process Skill, SE page 65; LabTime Hands-On Activity 3, TRB pages 51-53, TG page 66</b> <b>Chapter 4, Lesson 2, Process Skill, 81; LabTime Hands-On Activity 4, TRB pages 69-71, TG page 84</b> <b>Chapter 5, LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102</b> <b>Chapter 6, LabTime Hands-On Activity 6, TRB pages 105-107, TG page 120</b> <b>Chapter 7, Lesson 1, Process Skill, SE page 139; Lesson 2, Process Skill, SE page 147; LabTime Hands-On Activity 7, TRB pages 123-125, TG page 138</b> <b>Chapter 8, LabTime Hands-On Activity 8, TRB pages 141-143, TG page 156</b> <b>Chapter 9, Lesson 3, Process Skill, SE page 197; LabTime Hands-On Activity 9, TRB pages 159-161, TG page 174</b>

<b>8.2 SCIENCE AS INQUIRY</b>
8.2.1 By the end of eighth grade, students will develop the abilities needed to do scientific inquiry.
<ul style="list-style-type: none"> <li>Design and conduct a scientific investigation.</li> </ul>
<b>Chapter 1, LabTime Hands-On Activity 1, TRB pages 15-17, TG page 30</b> <b>Chapter 2, LabTime Hands-On Activity 2, TRB pages 33-35, TG page 48</b> <b>Chapter 3, LabTime Hands-On Activity 3, TRB pages 51-53, TG page 66</b> <b>Chapter 4, LabTime Hands-On Activity 4, TRB pages 69-71, TG page 84</b> <b>Chapter 5, Lesson 2, Process Skill, SE page 101; LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102</b> <b>Chapter 6, LabTime Hands-On Activity 6, TRB pages 105-107, TG page 120</b> <b>Chapter 7, LabTime Hands-On Activity 7, TRB pages 123-125, TG page 138</b> <b>Chapter 8, LabTime Hands-On Activity 8, TRB pages 141-143, TG page 156</b> <b>Chapter 9, Lesson 2, Process Skill, SE page 191; LabTime Hands-On Activity 9, TRB pages 159-161, TG page 174</b>

<b>8.2 SCIENCE AS INQUIRY</b>
8.2.1 By the end of eighth grade, students will develop the abilities needed to do scientific inquiry.
<ul style="list-style-type: none"> <li>Use appropriate tools and techniques to gather, analyze, and interpret data.</li> </ul>
<b>Chapter 1, Lesson 1, Video A, SE page 3; Video B, SE page 4; Video C, SE page 5; Lesson 2, Video A, SE page 9; Video B, SE page 10; Video C, SE page 11; Lesson 3, Video A, SE page 15; Video B, SE page 16</b> <b>Chapter 5 LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102</b> <b>Chapter 6, Lesson 3, Video B, SE page 128; Video C, SE page 129</b> <b>Chapter 7, Lesson 2, Video B, SE page 144; LabTime Hands-On Activity 7, TRB pages 123-125, TG page 138</b> <b>Chapter 8, Lesson C, Video C, SE page 165; KnowZone, SE pages 168-169</b> <b>Chapter 9, Lesson 2 Process Skill, SE page 191</b>

<b>8.2 SCIENCE AS INQUIRY</b>
8.2.1 By the end of eighth grade, students will develop the abilities needed to do scientific inquiry.
<ul style="list-style-type: none"> <li>Given evidence, develop descriptions, explanations, predictions, and models.</li> </ul>
<b>Chapter 1, LabTime Hands-On Activity 1, TRB pages 15-17, TG page 30</b> <b>Chapter 2, LabTime Hands-On Activity 2, TRB pages 33-35, TG page 48</b> <b>Chapter 3, LabTime Hands-On Activity 3, TRB pages 51-53, TG page 66</b> <b>Chapter 4, LabTime Hands-On Activity 4, TRB pages 69-71, TG page 84</b> <b>Chapter 5, Lesson 2, Process Skill, SE page 101; LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102</b> <b>Chapter 6, LabTime Hands-On Activity 6, TRB pages 105-107, TG page 120</b> <b>Chapter 7, LabTime Hands-On Activity 7, TRB pages 123-125, TG page 138</b> <b>Chapter 8, LabTime Hands-On Activity 8, TRB pages 141-143, TG page 156</b> <b>Chapter 9, Lesson 2, Process Skill, SE page 191; LabTime Hands-On Activity 9, TRB pages 159-161, TG page 174</b>

<b>8.2 SCIENCE AS INQUIRY</b>
8.2.1 By the end of eighth grade, students will develop the abilities needed to do scientific inquiry.
<ul style="list-style-type: none"> <li>Show the relationship between evidence and explanations.</li> </ul>
<b>Chapter 1, Lesson 2, Process Skill, SE page 13; LabTime Hands-On Activity 1, TRB pages 15-17, TG page 30</b> <b>Chapter 2, LabTime Hands-On Activity 2, TRB pages 33-35, TG page 48</b> <b>Chapter 3, Lesson 1, Process Skill, SE page 51; Lesson 3, Process Skill, SE page 65; LabTime Hands-On Activity 3, TRB pages 51-53, TG page 66</b> <b>Chapter 4, Lesson 2, Process Skill, 81; LabTime Hands-On Activity 4, TRB pages 69-71, TG page 84</b> <b>Chapter 5, LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102</b> <b>Chapter 6, LabTime Hands-On Activity 6, TRB pages 105-107, TG page 120</b> <b>Chapter 7, Lesson 1, Process Skill, SE page 139; Lesson 2, Process Skill, SE page 147; LabTime Hands-On Activity 7, TRB pages 123-125, TG page 138</b> <b>Chapter 8, LabTime Hands-On Activity 8, TRB pages 141-143, TG page 156</b> <b>Chapter 9, Lesson 3, Process Skill, SE page 197; LabTime Hands-On Activity 9, TRB pages 159-161, TG page 174</b>

<b>8.2 SCIENCE AS INQUIRY</b>
8.2.1 By the end of eighth grade, students will develop the abilities needed to do scientific inquiry.
<ul style="list-style-type: none"> <li>Recognize and analyze alternative explanations and predictions.</li> </ul>
<b>Chapter 1, LabTime Hands-On Activity 1, TRB pages 15-17, TG page 30</b> <b>Chapter 2, Lesson 3, Process Skill, SE page 43; LabTime Hands-On Activity 2, TRB pages 33-35, TG page 48</b> <b>Chapter 3, Lesson 1, Process Skill, SE page 51; LabTime Hands-On Activity 3, TRB pages 51-53, TG page 66</b> <b>Chapter 4, LabTime Hands-On Activity 4, TRB pages 69-71, TG page 84</b> <b>Chapter 5, Lesson 1, Process Skill, SE page 95; LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102</b> <b>Chapter 6, LabTime Hands-On Activity 6, TRB pages 105-107, TG page 120</b> <b>Chapter 7, Lesson 3, Process Skill, SE page 153; LabTime Hands-On Activity 7, TRB pages 123-125, TG page 138</b> <b>Chapter 8, LabTime Hands-On Activity 8, TRB pages 141-143, TG page 156</b> <b>Chapter 9, Lesson 2, Process Skill, SE page 191; LabTime Hands-On Activity 9, TRB pages 159-161, TG page 174</b>

<b>8.2 SCIENCE AS INQUIRY</b>
8.2.1 By the end of eighth grade, students will develop the abilities needed to do scientific inquiry.
<ul style="list-style-type: none"> <li>Communicate scientific procedures and explanations</li> </ul>
<b>Chapter 1, LabTime Hands-On Activity 1, TRB pages 15-17, TG page 30</b> <b>Chapter 2, LabTime Hands-On Activity 2, TRB pages 33-35, TG page 48</b> <b>Chapter 3, LabTime Hands-On Activity 3, TRB pages 51-53, TG page 66</b> <b>Chapter 4, LabTime Hands-On Activity 4, TRB pages 69-71, TG page 84</b> <b>Chapter 5, LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102</b> <b>Chapter 6, Lesson 3, Process Skill, SE page 131; LabTime Hands-On Activity 6, TRB pages 105-107, TG page 120</b> <b>Chapter 7, LabTime Hands-On Activity 7, TRB pages 123-125, TG page 138</b> <b>Chapter 8, LabTime Hands-On Activity 8, TRB pages 141-143, TG page 156</b> <b>Chapter 9, LabTime Hands-On Activity 9, TRB pages 159-161, TG page 174</b>

<b>8.2 SCIENCE AS INQUIRY</b>
8.2.1 By the end of eighth grade, students will develop the abilities needed to do scientific inquiry.
<ul style="list-style-type: none"> <li>Use mathematics in scientific inquiry.</li> </ul>
<b>Chapter 1, Lesson 1 Math in Science, SE page 7</b> <b>Chapter 2, Lesson 2 Math in Science, SE page 35</b> <b>Chapter 4, Lesson 1 Math in Science, SE page 73</b> <b>Chapter 5, Lesson 2 Math in Science, SE page 101</b> <b>Chapter 7, Lesson 2 Math in Science, SE page 147; LabTime Hands-On Activity 7, TRB pages 123-125, TG page 138</b> <b>Chapter 8, Lesson 3 Math in Science, SE page 175; Process Skill, SE page 175</b> <b>The Metric System, SE pages 200-201</b>



8.3 PHYSICAL SCIENCE
8.3.1 By the end of eighth grade, students will develop an understanding of properties and changes of properties in matter.
<ul style="list-style-type: none"> <li>Investigate and demonstrate that characteristic properties of a substance (e.g., density, boiling point, and solubility) do not depend on the amount of the substance.</li> </ul>
<b>Chapter 7, Lesson 1, Video A, SE page 135; Video C, SE page 137; Critical Thinking, SE page 139; Process Skill, SE page 139; Lesson 2, Video A, SE page 143; Video B, SE page 144; Process Skill, SE page 147</b>

8.3 PHYSICAL SCIENCE
8.3.1 By the end of eighth grade, students will develop an understanding of properties and changes of properties in matter.
<ul style="list-style-type: none"> <li>Observe, describe, and measure physical and chemical properties of matter.</li> </ul>
<b>Chapter 7, Lesson 1, Video B, SE page 136; Lesson 2, Video A, SE page 143; Video B, SE page 144; Video C, SE page 145; Critical Thinking, SE page 147</b>
<b>Chapter 8, Lesson 2, Video A, SE page 163</b>

8.3 PHYSICAL SCIENCE
8.3.1 By the end of eighth grade, students will develop an understanding of properties and changes of properties in matter.
<ul style="list-style-type: none"> <li>Explain that all matter is composed of elements which may combine in a variety of ways to form compounds.</li> </ul>
<b>Chapter 7, Lesson 1, Video A, SE page 135; Critical Thinking, SE page 139; KnowZone, SE pages 140-141; LabTime Hands-On Activity 7, TRB pages 123-125, TG page 138</b>
<b>The Periodic Table, SE pages 206-207</b>

8.3 PHYSICAL SCIENCE
8.3.1 By the end of eighth grade, students will develop an understanding of properties and changes of properties in matter.
<ul style="list-style-type: none"> <li>Investigate and explain that in chemical reactions new properties are created and total mass is conserved.</li> </ul>
<b>Chapter 7, Lesson 2, Video C, SE page 145; Lesson 3, Video A, SE page 149; Video B, SE page 150; Video C, SE page 151; Critical Thinking, SE page 153; Process Skill, SE page 153; LabTime Hands-On Activity 7, TRB pages 123-125, TG page 138</b>

8.3 PHYSICAL SCIENCE
8.3.2 By the end of eighth grade, students will develop an understanding of motion and forces.
<ul style="list-style-type: none"> <li>Investigate and describe the motion of an object by its position, direction of motion, and speed.</li> </ul>
<b>Chapter 9, Lesson 1, Video A, SE page 179; KnowZone, SE pages 184-185; Lesson 2, Video A, SE page 187; Video B, SE page 188; Video C, SE page 189; Critical Thinking, SE page 191; Process Skill, SE page 191; LabTime Hands-On Activity 9, TRB pages 159-161, TG page 174</b>

8.3 PHYSICAL SCIENCE
8.3.2 By the end of eighth grade, students will develop an understanding of motion and forces.
<ul style="list-style-type: none"> <li>Investigate and demonstrate that the speed and/or direction of an object changes when a force is applied to that object.</li> </ul>
<b>Chapter 9, Lesson 1, Video A, SE page 179; Video B, SE page 180; Video C, SE page 181; Critical Thinking, SE page 183; Process Skill, SE page 183; Lesson 3, video A, SE page 193; Video B, SE page 194; Video C, SE page 195; Critical Thinking, SE page 197; Process Skill, SE page 197; LabTime Hands-On Activity 9, TRB pages 159-161, TG page 174</b>

8.3 PHYSICAL SCIENCE
8.3.3 By the end of eighth grade, students will develop an understanding of the forms of energy and how energy is transferred.
<ul style="list-style-type: none"> <li>Investigate and describe the transfer of light energy.</li> </ul>
<b>Chapter 8, Lesson 1, Video A, SE page 157; Video B, SE page 158; Video C, SE page 159; Lesson 2, Video A, SE page 163; Video B, SE page 164; Video C, SE page 165; Lesson 3, Video A, SE page 171; Video B, SE page 172; Video C, SE page 173; Critical Thinking, SE page 175; LabTime Hands-On Activity 8, TRB pages 141-143, TG page 156</b>

8.3 PHYSICAL SCIENCE
8.3.3 By the end of eighth grade, students will develop an understanding of the forms of energy and how energy is transferred.
<ul style="list-style-type: none"> <li>Investigate and demonstrate how energy is transferred using simple machines.</li> </ul>
<b>See Level A:</b> <b>Chapter 8, Lesson 3, Video A, SE page 149; Video B, SE page 150; Video C, SE page 151; Writing in Science, SE page 153; Process Skill, SE page 153</b>
<b>See also Level B:</b> <b>Chapter 8, Lesson 3, Video C, SE page 173; Math in Science, SE page 175; Process Skill, SE page 175</b>

8.3 PHYSICAL SCIENCE
8.3.3 By the end of eighth grade, students will develop an understanding of the forms of energy and how energy is transferred.
<ul style="list-style-type: none"> <li>Investigate and describe how heat is transferred from a warmer object to a cooler object until both reach the same temperature.</li> </ul>
<b>Chapter 8, Lesson 2, Video A, SE page 163; Video B, SE page 164; Video C, SE page 165; Critical Thinking, SE page 167; Process Skill, SE page 167</b>

8.3 PHYSICAL SCIENCE
8.3.3 By the end of eighth grade, students will develop an understanding of the forms of energy and how energy is transferred.
<ul style="list-style-type: none"> <li>Investigate and describe the properties and transfer of sound energy.</li> </ul>
<b>See Level B:</b> <b>Chapter 8, Lesson 1, Video A, SE page 157; Video B, SE page 158; Video C, SE page 159; Process Skill, SE page 161; LabTime Hands-On Activity 8, TRB pages 141-143, TG page 156</b>

8.3 PHYSICAL SCIENCE
8.3.3 By the end of eighth grade, students will develop an understanding of the forms of energy and how energy is transferred.
<ul style="list-style-type: none"> <li>Investigate and describe the transfer of energy from electrical and magnetic sources to different energy forms (e.g., heat, light, sound and chemical).</li> </ul>
<b>Level C:</b> <b>Chapter 9, Lesson 1, Video A, SE page 171; Video B, SE page 172</b>
<b>See also Level B:</b> <b>Chapter 9, Lesson 1, Video C, SE page 181; Critical Thinking, SE page 183</b>

84.4 LIFE SCIENCE
84.4.1 By the end of eighth grade, students will develop an understanding of the structure and function in living systems.
<ul style="list-style-type: none"> <li>Investigate and describe the levels of organizations: Cells, tissues, organs, organ systems, whole organisms, and ecosystems.</li> </ul>
<b>Chapter 1, Lesson 1, Video A, SE page 3; Video B, SE page 4; Video C, SE page 5; Critical Thinking, SE page 7; Process Skill, SE page 7; Lesson 2, Video A, SE page 9; Video B, SE page 10; Video C, SE page 11; Critical Thinking, SE page 13; Process Skill, SE page 13; Lesson 3, Video A, SE page 15; Video B, SE page 16; Video C, SE page 17; Critical Thinking, SE page 19; Process Skill, SE page 19; LabTime Hands-On Activity 1, TRB pages 15-17, TG page 30 Chapter 2, Lesson 1, Video A, SE page 25; Video B, SE page 26; Critical Thinking, SE page 29; Process Skill, SE page 29; Lesson 2, Video A, SE page 39; Video B, SE page 40; Video C, SE page 41; Critical Thinking, SE page 43; Lesson 3, Video A, SE page 47; Video B, SE page 48; Video C, SE page 49; Critical Thinking, SE page 51</b>

84.4 LIFE SCIENCE
84.4.1 By the end of eighth grade, students will develop an understanding of the structure and function in living systems.
<ul style="list-style-type: none"> <li>Investigate and demonstrate that all living things are composed of cells.</li> </ul>
<b>Chapter 1, Lesson 1, Video A, SE page 3; Lesson 3, Video A, SE page 15; Video B, SE page 16; Critical Thinking, SE page 19</b>

84.4 LIFE SCIENCE
8.4.1 By the end of eighth grade, students will develop an understanding of the structure and function in living systems.
<ul style="list-style-type: none"> <li>Investigate and explain how cells sustain life through functions (e.g., growth and nutrition).</li> </ul>
<b>Chapter 1, Lesson 1, Video B, SE page 4; Video C, SE page 5; Critical Thinking, SE page 7; Lesson 2, Video A, SE page 9; Lesson 3, Video A, SE page 15; LabTime Hands-On Activity 1, TRB pages 15-17, TG page 30</b>

84.4 LIFE SCIENCE
8.4.1 By the end of eighth grade, students will develop an understanding of the structure and function in living systems.
<ul style="list-style-type: none"> <li>Investigate and describe the specialized function performed by specialized cells (e.g., muscular and skeletal) in multicellular organisms.</li> </ul>
<b>Chapter 1, Lesson 2, Video A, SE page 9; Video B, SE page 10; Video C, SE page 11; Critical Thinking, SE page 13; Process Skill, SE page 13; Lesson 3, Video A, SE page 15; Video B, SE page 16; Video C, SE page 17</b>

84.4 LIFE SCIENCE
8.4.1 By the end of eighth grade, students will develop an understanding of the structure and function in living systems.
<ul style="list-style-type: none"> <li>Investigate and describe the human body systems and how they interact.</li> </ul>
<b>Chapter 1, Lesson 3, Video B, SE page 16; Video C, SE page 17</b>

84.4 LIFE SCIENCE
8.4.1 By the end of eighth grade, students will develop an understanding of the structure and function in living systems.
<ul style="list-style-type: none"> <li>Investigate and explain how disease affects the structure and/or function of an organism.</li> </ul>
<b>Chapter 1, Lesson 3, Video A, SE page 15; Critical Thinking, SE page 19; KnowZone, SE page 20-21</b>

8.4 LIFE SCIENCE
8.4.2 By the end of eighth grade, students will develop an understanding of reproduction and heredity.
<ul style="list-style-type: none"> <li>Investigate and describe how all organisms reproduce through sexual or asexual reproduction.</li> </ul>
<b>Chapter 2, Lesson 2, Video A, SE page 31; Video B, SE page 32; Critical Thinking, SE page 35; Process Skill, SE page 35</b>

8.4 LIFE SCIENCE
8.4.2 By the end of eighth grade, students will develop an understanding of reproduction and heredity.
<ul style="list-style-type: none"> <li>Investigate and describe that in many species, offspring receive hereditary information from the female (eggs) and male (sperm).</li> </ul>
<b>Chapter 2, Lesson 2, Video B, SE page 32</b>

8.4 LIFE SCIENCE
8.4.2 By the end of eighth grade, students will develop an understanding of reproduction and heredity.
<ul style="list-style-type: none"> <li>Investigate and explain that chromosomes contain genes which influence heredity.</li> </ul>
<b>This concept is not covered at this level.</b>

8.4 LIFE SCIENCE
8.4.2 By the end of eighth grade, students will develop an understanding of reproduction and heredity.
<ul style="list-style-type: none"> <li>Investigate and describe the effects of inherited traits and environmental influences on an organism's characteristics.</li> </ul>
<b>Chapter 2, Lesson 2, Video B, SE page 32; Video C, SE page 33; Critical Thinking, SE page 35; Process Skill, SE page 35; KnowZone, SE pages 36-37</b>

8.4 LIFE SCIENCE
8.4.3 By the end of eighth grade, students will develop an understanding of regulation and behavior.
<ul style="list-style-type: none"> <li>Investigate and explain how organisms' behaviors enhance their abilities to obtain and use resources, grow, and reproduce.</li> </ul>
<b>Chapter 2, Lesson 1, Video C, SE page 27; Lesson 3, video A, SE page 39; Video B, SE page 40; Video C, SE page 41; Critical Thinking, SE page 43</b>

8.4 LIFE SCIENCE
8.4.3 By the end of eighth grade, students will develop an understanding of regulation and behavior.
<ul style="list-style-type: none"> <li>Investigate and examine how an organism senses a change in its internal or external environment and responds to keep conditions within a required range.</li> </ul>
<b>Chapter 2, Lesson 2, Video C, SE page 33; LabTime Hands-On Activity 2, TRB pages 33-35, TG page 48</b>

8.4 LIFE SCIENCE
8.4.3 By the end of eighth grade, students will develop an understanding of regulation and behavior.
<ul style="list-style-type: none"> <li>Investigate and explain how behavior is a response to internal and external stimuli determined by heredity and experience.</li> </ul>
<b>Chapter 2, Lesson 2, Video B, SE page 32; Video C, SE page 33; Critical Thinking, SE page 35; KnowZone, SE pages 36-37; LabTime Hands-On Activity 2, TRB pages 33-35, TG page 48</b>

8.4 LIFE SCIENCE
8.4.3 By the end of eighth grade, students will develop an understanding of regulation and behavior.
<ul style="list-style-type: none"> <li>Investigate and explain how an organism's behavior evolves through environmental adaptation.</li> </ul>
<b>Chapter 2, Lesson 2, Video B, SE page 32; Video C, SE page 33; Critical Thinking, SE page 35; Process Skill, SE page 35; KnowZone, SE pages 36-37; LabTime Hands-On Activity 2, TRB pages 33-35, TG page 48</b>

8.4 LIFE SCIENCE
8.4.4 By the end of eighth grade, students will develop an understanding of populations and ecosystems.
<ul style="list-style-type: none"> <li>Investigate and describe that a population consists of all individuals of a species at a given place and time.</li> </ul>
<b>Chapter 3, Lesson 1, Video A, SE page 47; Video B, SE page 48; Video C, SE page 49; Critical Thinking, SE page 51; Process Skill, SE page 51</b>

8.4 LIFE SCIENCE
8.4.4 By the end of eighth grade, students will develop an understanding of populations and ecosystems.
<ul style="list-style-type: none"> <li>Investigate and analyze the living and nonliving factors that determine the number of organisms an ecosystem can support.</li> </ul>
<b>Chapter 3, Lesson 1, Video A, SE page 47; Video B, SE page 48; Critical Thinking, SE page 51; Process Skill, SE page 51; Lesson 3, Video B, SE page 62; Critical Thinking, SE page 65</b>

8.4 LIFE SCIENCE
8.4.4 By the end of eighth grade, students will develop an understanding of populations and ecosystems.
<ul style="list-style-type: none"> <li>Describe an organism by the function it serves in an ecosystem (e.g., producer, consumer, and decomposer).</li> </ul>
<b>Level C:</b> <b>Chapter 3, Lesson 1, Video A, SE page 47; Video B, SE page 48; Video C, SE page 49; Process Skill, SE page 51</b> <b>Food Web, SE page 203</b> <b>Energy Pyramid, SE page 203</b>
<b>See also Level B:</b> <b>Chapter 1, Lesson 2, Video A, SE page 9; Video B, SE page 10; Process Skill, SE page 13; Lesson 3, Video A, SE page 17; Process Skill, SE page 21</b> <b>Food Web, SE page 203</b> <b>Energy Pyramid, SE page 203</b>

8.4 LIFE SCIENCE
8.4.4 By the end of eighth grade, students will develop an understanding of populations and ecosystems.
<ul style="list-style-type: none"> <li>Investigate and explain how energy entering ecosystems as sunlight is transferred by producers into chemical energy through photosynthesis, and that energy then passes from organisms to organism in food webs.</li> </ul>
<b>Level C:</b> <b>Chapter 3, Lesson 1, Video C, SE page 49</b> <b>Food Web, SE page 203</b> <b>Energy Pyramid, SE page 203</b>
<b>See also Level B:</b> <b>Chapter 2, Lesson 2, Video A, SE page 31; Video B, SE page 32; Video C, SE page 33; Critical Thinking, SE page 35; Process Skill, SE page 35; LabTime Hands-On Activity 2, TRB pages 33-35, TG page 48</b> <b>Food Web, SE page 203</b> <b>Energy Pyramid, SE page 203</b>

8.5 LIFE SCIENCE
8.4.5 By the end of eighth grade, students will develop an understanding of diversity and adaptations of organisms.
<ul style="list-style-type: none"> <li>Explain how internal structures, similarities of chemical processes (e.g., photosynthesis and respiration) and evidence of common ancestry demonstrate unity among organisms.</li> </ul>
<b>Chapter 2, Lesson 1, Video A, SE page 25; Video B, SE page 26; Video C, SE page 27; Critical Thinking, SE page 29; Process Skill, SE page 29</b>

8.5 LIFE SCIENCE
8.4.5 By the end of eighth grade, students will develop an understanding of diversity and adaptations of organisms.
<ul style="list-style-type: none"> <li>Investigate and explain how organisms adapt to living and nonliving factors in a biome.</li> </ul>
<b>Chapter 2, Lesson 1, Video C, SE page 27; Lesson 2, Video B, SE page 32; Video C, SE page 33</b> <b>Chapter 3, LabTime Hands-On Activity 3, TRB pages 51-53, TG page 66</b>

8.5 LIFE SCIENCE
8.4.5 By the end of eighth grade, students will develop an understanding of diversity and adaptations of organisms.
<ul style="list-style-type: none"> <li>Investigate and explain how environmental changes created by nature and by humans may cause species extinction.</li> </ul>
<b>Chapter 2, Lesson 1, Video C, SE page 27</b> <b>Chapter 4, Lesson 3, Video A, SE page 83</b>

8.5 EARTH AND SPACE SCIENCE
8.5.1 By the end of eighth grade, students will develop an understanding of the structure of the earth.
<ul style="list-style-type: none"> <li>Investigate and describe the crust, mantle, and core of the earth.</li> </ul>
<b>Chapter 4, Lesson 1, Video A, SE page 69; Video B, SE page 70 Earth's Layers, SE page 204</b>

8.5 EARTH AND SPACE SCIENCE
8.5.1 By the end of eighth grade, students will develop an understanding of the structure of the earth.
<ul style="list-style-type: none"> <li>Investigate and describe how a combination of constructive and destructive forces create land forms.</li> </ul>
<b>Chapter 4, Lesson 1, Video C, SE page 71; Critical Thinking, SE page 73; KnowZone, SE pages 74-75; Lesson 2, Video A, SE page 77; Video B, SE page 78; Video C, SE page 79; Critical Thinking, SE page 81; Lesson 3, Writing in Science, SE page 87; Process Skill, SE page 87</b>

8.5 EARTH AND SPACE SCIENCE
8.5.1 By the end of eighth grade, students will develop an understanding of the structure of the earth.
<ul style="list-style-type: none"> <li>Investigate and describe the composition of soils.</li> </ul>
<b>Level C: Chapter 4, Lesson 3, Video C, SE page 85</b>
<b>See also Level A: Chapter 4, Lesson 2, Video C, SE page 77; Critical Thinking, SE page 79; Process Skill, SE page 79</b>

8.5 EARTH AND SPACE SCIENCE
8.5.1 By the end of eighth grade, students will develop an understanding of the structure of the earth.
<ul style="list-style-type: none"> <li>Investigate and describe the water cycle.</li> </ul>
<b>Chapter 4, Lesson 1, Video A, SE page 69 Chapter 5, Lesson 2, Video A, SE page 97; Video B, SE page 98; Video C, SE page 99; Critical Thinking, SE page 101; Process Skill, SE page 101 The Water Cycle, SE page 204</b>

8.5 EARTH AND SPACE SCIENCE
8.5.1 By the end of eighth grade, students will develop an understanding of the structure of the earth.
<ul style="list-style-type: none"> <li>Investigate and describe the composition of the atmosphere at different altitudes.</li> </ul>
<b>Chapter 5, Lesson 1, Video A, SE page 91; Video C, SE page 93; Critical Thinking, SE page 95; LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102</b>

8.5 EARTH AND SPACE SCIENCE
8.5.1 By the end of eighth grade, students will develop an understanding of the structure of the earth.
<ul style="list-style-type: none"> <li>Investigate and describe the influence of topography, location, and oceans on climate.</li> </ul>
<b>Chapter 5, Lesson 1, Video B, SE page 92; Process Skill, SE page 95</b>

8.5 EARTH AND SPACE SCIENCE
8.5.1 By the end of eighth grade, students will develop an understanding of the structure of the earth.
<ul style="list-style-type: none"> <li>Investigate and describe the effect of living organisms on weathering and the atmosphere.</li> </ul>
<b>Chapter 3, Lesson 1, Video C, E page 49; KnowZone, SE pages 58-59; Lesson 3, Video B, SE page 62 Chapter 4, Lesson 2, Video A, SE page 77; Process Skill, SE page 81; Lesson 3, Video A, SE page 83 Chapter 5, Lesson 1, Video C, SE page 93</b>

8.5 EARTH AND SPACE SCIENCE
8.5.2 By the end of eighth grade, students will develop an understanding of the earth's history.
<ul style="list-style-type: none"> <li>Investigate and describe how earth processes that occur today (e.g., volcanism, weather, and erosion) are similar to those that occurred in the past.</li> </ul>
<b>Chapter 4, Lesson 1, Video B, SE page 70; Video C, SE page 71; Critical thinking, SE page 73; KnowZone, SE pages 74-75; Lesson 2, Video A, SE page 77; Video B, SE page 78; Video C, SE page 79; Critical Thinking, SE page 81; Lesson 3, Video A, SE page 83; Video B, SE page 84; Video C, SE page 85; Process Skill, SE page 87</b>

8.5 EARTH AND SPACE SCIENCE
8.5.2 By the end of eighth grade, students will develop an understanding of the earth's history.
<ul style="list-style-type: none"> <li>Investigate and use the fossil record to provide evidence and explain how environmental conditions have changed.</li> </ul>
<b>Chapter 2, Lesson 1, Video C, SE page 27 Chapter 4, Lesson 3, Video A, SE page 83</b>

8.5 EARTH AND SPACE SCIENCE
8.5.3 By the end of eighth grade, students will develop an understanding of the earth in the solar system.
<ul style="list-style-type: none"> <li>Investigate and list the components of the solar system.</li> </ul>
<b>Chapter 6, Lesson 1, Video A, SE page 113; Video B, SE page 114; Video C, SE page 115; Critical Thinking, SE page 117; Process Skill, SE page 117; KnowZone, SE pages 118-119</b>

8.5 EARTH AND SPACE SCIENCE
8.5.3 By the end of eighth grade, students will develop an understanding of the earth in the solar system.
<ul style="list-style-type: none"> <li>Investigate and describe the motion of objects in the solar system that support concepts of day, year, eclipses, and phases of the moon.</li> </ul>
<b>Chapter 6, Lesson 2, Video A, SE page 121; Video B, SE page 122; Video C, SE page 123; Critical Thinking, SE page 125; Process Skill, SE page 125 Earth in Space, SE page 205</b>

8.5 EARTH AND SPACE SCIENCE
8.5.3 By the end of eighth grade, students will develop an understanding of the earth in the solar system.
<ul style="list-style-type: none"> <li>Investigate and describe the influence of gravity on objects in the solar system.</li> </ul>
<b>Chapter 6, Lesson 1, Video B, SE page 114; Lesson 2, Video B, SE page 122 Chapter 9, Lesson 1, Video B, SE page 180</b>

8.5 EARTH AND SPACE SCIENCE
8.5.3 By the end of eighth grade, students will develop an understanding of the earth in the solar system.
<ul style="list-style-type: none"> <li>Investigate and describe the sun as the major source of energy that influences the atmosphere and the earth's surface.</li> </ul>
<b>Chapter 3, Lesson 1, Video C, SE page 49 Chapter 5, Lesson 1, Video A, SE page 91; Video B, SE page 92; Lesson 2, Video B, SE page 98; Lesson 3, Video C, SE page 105 Chapter 6, Lesson 1, Video A, SE page 113; Lesson 2, Video A, SE page 121 Chapter 8, Lesson 1, Video A, SE page 157 The Water Cycle, SE page 204</b>

8.5 EARTH AND SPACE SCIENCE
8.5.3 By the end of eighth grade, students will develop an understanding of the earth in the solar system.
<ul style="list-style-type: none"> <li>Investigate and describe the effect of the tilt of the earth's axis on seasons.</li> </ul>
<b>Chapter 6, Lesson 2, Video A, SE page 121</b>

8.6 SCIENCE AND TECHNOLOGY
8.6.1 By the end of eighth grade, students will develop an understanding of technological design.
<ul style="list-style-type: none"> <li>Identify problems for technological design.</li> </ul>
<b>Chapter 9 LabTime Hands-On Activity 9, TRB pages 159-161, TG page 174</b>

8.6 SCIENCE AND TECHNOLOGY
8.6.1 By the end of eighth grade, students will develop an understanding of technological design.
<ul style="list-style-type: none"> <li>Design a solution or product.</li> </ul>
<b>Chapter 9 LabTime Hands-On Activity 9, TRB pages 159-161, TG page 174</b>

8.6 SCIENCE AND TECHNOLOGY
8.6.1 By the end of eighth grade, students will develop an understanding of technological design.
<ul style="list-style-type: none"> <li>Implement a proposed design.</li> </ul>
<b>Chapter 9 LabTime Hands-On Activity 9, TRB pages 159-161, TG page 174</b>

8.6 SCIENCE AND TECHNOLOGY
8.6.1 By the end of eighth grade, students will develop an understanding of technological design.
<ul style="list-style-type: none"> <li>Evaluate completed technological designs or product.</li> </ul>
<b>Chapter 9 LabTime Hands-On Activity 9, TRB pages 159-161, TG page 174</b>

8.6 SCIENCE AND TECHNOLOGY
8.6.1 By the end of eighth grade, students will develop an understanding of technological design.
<ul style="list-style-type: none"> <li>Communicate the process of technological design.</li> </ul>
<b>Chapter 9 LabTime Hands-On Activity 9, TRB pages 159-161, TG page 174</b>

8.6 SCIENCE AND TECHNOLOGY
8.6.2 By the end of eighth grade, students will develop an understanding of science and technology.
<ul style="list-style-type: none"> <li>Distinguish between scientific inquiry (asking questions about the natural world) and technological design (using science to solve practical problems).</li> </ul>
<b>Chapter 4, Lesson 3, video C, SE page 85; Critical Thinking, SE page 87</b>
<b>Chapter 5, Lesson 1, Process Skill, SE page 95; Lesson 2, Video C, SE page 99; Critical Thinking, SE page 101</b>
<b>Chapter 6, Lesson 3, Video B, SE page 128; Video C, SE page 129; Critical Thinking, SE page 131</b>
<b>Chapter 8, Lesson 1, Video C, SE page 159; Lesson 3, Video C, SE page 173; Critical Thinking, SE page 175</b>

8.6 SCIENCE AND TECHNOLOGY
8.6.2 By the end of eighth grade, students will develop an understanding of science and technology.
<ul style="list-style-type: none"> <li>Describe how science and technology are reciprocal.</li> </ul>
<b>Chapter 1, Lesson 2, Process Skill, SE page 13; LabTime Hands-On Activity 1, TRB pages 15-17, TG page 30</b>
<b>Chapter 3, Lesson 3, Process Skill, SE page 65; LabTime Hands-On Activity 3, TRB pages 51-53, TG page 66</b>
<b>Chapter 4, Lesson 2, Process Skill, SE page 81</b>
<b>Chapter 5, Lesson 3, Process Skill, SE page 107; LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102</b>
<b>Chapter 7, Lesson 1, Process Skill, SE page 139; Lesson 2, Process Skill, SE page 147; LabTime Hands-On Activity 7, TRB pages 123-125, TG page 138</b>
<b>Chapter 9, Lesson 3, Process Skill, SE page 197; LabTime Hands-On Activity 9, TRB pages 159-161, TG page 174</b>
<b>The Metric System, SE pages 200-201</b>



8.6 SCIENCE AND TECHNOLOGY
8.6.2 By the end of eighth grade, students will develop an understanding of science and technology.
<ul style="list-style-type: none"> <li>Assess the avoidable and unavoidable limits of a technological design.</li> </ul>
<b>Chapter 4, Lesson 2, Critical Thinking, SE page 81; Lesson 3, Video C, SE page 85; Critical Thinking, SE page 87</b> <b>Chapter 5, Lesson 2, Video C, SE page 99; Critical Thinking, SE page 101</b> <b>Chapter 6, Lesson 3, Video B, SE page 128; Video C, SE page 129; Critical Thinking, SE page 131; Writing in Science, SE page 131</b> <b>Chapter 8, Lesson 3, Video C, SE page 173</b> <b>Chapter 9, Lesson 1, Video C, SE page 181; Process Skill, SE page 183</b>

8.6 SCIENCE AND TECHNOLOGY
8.6.2 By the end of eighth grade, students will develop an understanding of science and technology.
<ul style="list-style-type: none"> <li>Recognize that solutions are intended and unintended consequences.</li> </ul>
<b>Chapter 3, Lesson 3, Video C, SE page 63</b> <b>Chapter 5, Lesson 2, Critical Thinking, SE page 101</b> <b>Chapter 6, Lesson 3, Video B, SE page 128; Video C, SE page 129; Critical Thinking, SE page 131; Writing in Science, SE page 131</b> <b>Chapter 8, Lesson 1, Video C, SE page 159; Lesson 3, Critical Thinking, SE page 175; Process Skill, SE page 175</b>

8.7 SCIENCE IN PERSONAL AND SOCIAL PERSPECTIVES
8.7.1 By the end of eighth grade, students will develop an understanding of personal health.
<ul style="list-style-type: none"> <li>Identify and research substances harmful to human beings in the natural environment (e.g., radon, lead, and nitrates).</li> </ul>
<b>This concept is not covered at this level.</b>

8.7 SCIENCE IN PERSONAL AND SOCIAL PERSPECTIVES
8.7.1 By the end of eighth grade, students will develop an understanding of personal health.
<ul style="list-style-type: none"> <li>Investigate and explain how personal choices can directly affect a person's health (e.g., exercise, nutrition, and use of drugs).</li> </ul>
<b>See Level A:</b> <b>Chapter 3, Lesson 1, Video A, SE page 47; Video B, SE page 48; Video C, SE page 49; Critical Thinking, SE page 51; Process Skill, SE page 51; Lesson 2, Video C, SE page 57; Critical Thinking, SE page 59</b>

8.7 SCIENCE IN PERSONAL AND SOCIAL PERSPECTIVES
8.7.2 By the end of eighth grade, students will develop an understanding of relationships among populations, resources, and environments.
<ul style="list-style-type: none"> <li>Investigate and describe how population levels affect resources and the environment.</li> </ul>
<b>Chapter 3, Lesson 1, Video B, SE page 48; Process Skill, SE page 51</b>

8.7 SCIENCE IN PERSONAL AND SOCIAL PERSPECTIVES
8.7.2 By the end of eighth grade, students will develop an understanding of relationships among populations, resources, and environments.
<ul style="list-style-type: none"> <li>Investigate and understand that the causes of environmental degradation and resource depletion vary locally and globally.</li> </ul>
<b>Chapter 3, Lesson 3, Video B, SE page 62</b> <b>Chapter 4, Lesson 3, Video C, SE page 85</b> <b>Chapter 5, Lesson 2, Video C, SE page 99; Critical Thinking, SE page 101</b> <b>Chapter 8, Lesson 1, Video C, SE page 159; Lesson 3, Video C, SE page 173</b>

84.7 SCIENCE IN PERSONAL AND SOCIAL PERSPECTIVES
8.7.3 By the end of eighth grade, students will develop an understanding of natural hazards.
<ul style="list-style-type: none"> <li>Investigate and describe the effect of natural hazards on the environment (e.g., earthquakes, landslides, wildfires, floods and storms).</li> </ul>
<b>Chapter 4, Lesson 1, Video C, SE page 71; Process Skill, SE page 731 KnowZone, SE pages 74-75</b> <b>Chapter 5, Lesson 3, Video B, SE page 104; Critical Thinking, SE pages 107; KnowZone, SE pages 108-109</b>

84.7 SCIENCE IN PERSONAL AND SOCIAL PERSPECTIVES
8.7.3 By the end of eighth grade, students will develop an understanding of natural hazards.
<ul style="list-style-type: none"> <li>Investigate and describe human activities (e.g., urban growth, land use, and waste disposal) which can accelerate many natural changes.</li> </ul>
<b>Chapter 3, Lesson 3, Video B, SE page 62</b> <b>Chapter 5, Lesson 1, Video C, SE page 93; Critical Thinking, SE page 95; Lesson 2, Video C, SE page 99</b>

8.7 SCIENCE IN PERSONAL AND SOCIAL PERSPECTIVES
8.7.4 By the end of eighth grade, students will develop an understanding of risks and benefits.
<ul style="list-style-type: none"> <li>Analyze a type of hazard (e.g., natural, chemical, or biological) to evaluate the options for reducing or eliminating human risk.</li> </ul>
<b>Chapter 1, KnowZone, SE pages 20-21</b> <b>Chapter 2, Lesson 3, Video C, SE page 41</b> <b>Chapter 3, Lesson 3, Video B, SE page 62</b> <b>Chapter 5, Lesson 1, Video C, SE page 93; Critical Thinking, SE page 95; Lesson 2, Video C, SE page 99; Lesson 3, Video B, SE page 104; Critical Thinking, SE page 107; KnowZone, SE pages 108-109</b>

8.7 SCIENCE IN PERSONAL AND SOCIAL PERSPECTIVES
8.7.4 By the end of eighth grade, students will develop an understanding of risks and benefits.
<ul style="list-style-type: none"> <li>Describe how perceptions of risks and benefits influence personal and social decisions (e.g., seat belt usage and waste disposal procedures).</li> </ul>
<b>Chapter 3, Lesson 3, Video B, SE page 62</b> <b>Chapter 4, Lesson 1, Critical Thinking, SE page 73; Lesson 3, Video C, SE page 85; Critical Thinking, SE page 87</b> <b>Chapter 5, Lesson 1, Video A, SE page 93; Critical Thinking, SE page 95; Lesson 2, Video C, SE page 99; Critical Thinking, SE page 101</b> <b>Chapter 6, Lesson 3, Video A, SE page 127; Video B, SE page 128; Video C, SE page 129; Critical Thinking, SE page 131</b> <b>Chapter 8, Lesson 1, Video C, SE page 159; Lesson 3, Video C, SE page 173</b>

8.8 HISTORY AND NATURE OF SCIENCE
8.8.1 By the end of eighth grade, students will develop an understanding of science as a human endeavor.
<ul style="list-style-type: none"> <li>Investigate and understand that women and men of various social and ethnic backgrounds, working alone or in teams, engage in the activities of science, engineering, and related fields.</li> </ul>
<b>Chapter 1, Lesson 1, Video A, SE page 3; Video B, SE page 4; Video C, SE page 5; Lesson 2, Video A, SE page 9; Video B, SE page 10; Video C, SE page 11; Lesson 3, Video A, SE page 15; Video B, SE page 16</b> <b>Chapter 5 LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102</b> <b>Chapter 6, Lesson 3, Video B, SE page 128; Video C, SE page 129</b> <b>Chapter 7, Lesson 2, Video B, SE page 144; LabTime Hands-On Activity 7, TRB pages 123-125, TG page 138</b> <b>Chapter 8, Lesson C, Video C, SE page 165; KnowZone, SE pages 168-169</b> <b>Chapter 9, Lesson 2 Process Skill, SE page 191</b>

8.8 HISTORY AND NATURE OF SCIENCE
8.8.1 By the end of eighth grade, students will develop an understanding of science as a human endeavor.
<ul style="list-style-type: none"> <li>Investigate and understand that science requires different abilities based on the type of inquiry and relies upon basic human qualities and scientific habits of mind.</li> </ul>
<b>Chapter 1, Lesson 3, Critical Thinking, SE page 19</b> <b>Chapter 2, Lesson 2, Critical Thinking, SE page 35</b> <b>Chapter 3, Lesson 1, Critical Thinking, SE page 51; Lesson 3, Critical Thinking, SE page 65</b> <b>Chapter 4, Lesson 3, Critical Thinking, SE page 87</b> <b>Chapter 5, Lesson 1, Critical Thinking, SE page 95</b> <b>Chapter 7, Lesson 2, Critical Thinking, SE page 147</b> <b>Chapter 8, Lesson 2, Critical Thinking, SE page 167; Lesson 3, Critical Thinking, SE page 175</b> <b>Chapter 9, Lesson 3, Video A, SE page 193; Video B, SE page 194; Video C, SE page 195; , Critical Thinking, SE page 197</b>

8.8 HISTORY AND NATURE OF SCIENCE
8.8.1 By the end of eighth grade, students will develop an understanding of science as a human endeavor.
<ul style="list-style-type: none"> <li>Explain the need for ethical codes followed by scientists (e.g., humane treatment of animals and truth in reporting).</li> </ul>
<b>Chapter 3, Lesson 2, Critical Thinking, SE page 57; KnowZone, SE pages 58-59; Lesson 3, Video B, SE page 62</b> <b>Chapter 5, Lesson 1, Video C, SE page 93; Lesson 3, Video A, SE page 103</b>

8.8 HISTORY AND NATURE OF SCIENCE
8.8.2 By the end of eighth grade, students will develop an understanding of the nature of science.
<ul style="list-style-type: none"> <li>Formulate and test a hypothesis using observations, experiments, and models.</li> </ul>
<b>Chapter 1, LabTime Hands-On Activity 1, TRB pages 15-17, TG page 30</b> <b>Chapter 2, LabTime Hands-On Activity 2, TRB pages 33-35, TG page 48</b> <b>Chapter 3, Lesson 1, Process Skill, SE page 51; LabTime Hands-On Activity 3, TRB pages 51-53, TG page 66</b> <b>Chapter 4, LabTime Hands-On Activity 4, TRB pages 69-71, TG page 84</b> <b>Chapter 5, LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102</b> <b>Chapter 6, LabTime Hands-On Activity 6, TRB pages 105-107, TG page 120</b> <b>Chapter 7, Lesson 1, Process Skill, SE page 139; Lesson 2, Process Skill, SE page 147; LabTime Hands-On Activity 7, TRB pages 123-125, TG page 138</b> <b>Chapter 8, Lesson 2, Process Skill, SE page 167; LabTime Hands-On Activity 8, TRB pages 141-143, TG page 156</b> <b>Chapter 9, LabTime Hands-On Activity 9, TRB pages 159-161, TG page 174</b>

8.8 HISTORY AND NATURE OF SCIENCE
8.8.2 By the end of eighth grade, students will develop an understanding of the nature of science.
<ul style="list-style-type: none"> <li>Use questioning, response to criticism, and open communication when defending a conclusion.</li> </ul>
<b>Chapter 1, LabTime Hands-On Activity 1, TRB pages 15-17, TG page 30</b> <b>Chapter 2, LabTime Hands-On Activity 2, TRB pages 33-35, TG page 48</b> <b>Chapter 3, Lesson 1, Process Skill, SE page 51; LabTime Hands-On Activity 3, TRB pages 51-53, TG page 66</b> <b>Chapter 4, LabTime Hands-On Activity 4, TRB pages 69-71, TG page 84</b> <b>Chapter 5, LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102</b> <b>Chapter 6, LabTime Hands-On Activity 6, TRB pages 105-107, TG page 120</b> <b>Chapter 7, Lesson 1, Process Skill, SE page 139; Lesson 2, Process Skill, SE page 147; LabTime Hands-On Activity 7, TRB pages 123-125, TG page 138</b> <b>Chapter 8, Lesson 2, Process Skill, SE page 167; LabTime Hands-On Activity 8, TRB pages 141-143, TG page 156</b> <b>Chapter 9, LabTime Hands-On Activity 9, TRB pages 159-161, TG page 174</b>

8.8 HISTORY AND NATURE OF SCIENCE
8.8.2 By the end of eighth grade, students will develop an understanding of the nature of science.
<ul style="list-style-type: none"> <li>Evaluate the results of scientific investigations, experiments, observations, theoretical models, and the explanations proposed by other scientists.</li> </ul>
<b>Chapter 1, LabTime Hands-On Activity 1, TRB pages 15-17, TG page 30</b> <b>Chapter 2, LabTime Hands-On Activity 2, TRB pages 33-35, TG page 48</b> <b>Chapter 3, Lesson 1, Process Skill, SE page 51; LabTime Hands-On Activity 3, TRB pages 51-53, TG page 66</b> <b>Chapter 4, LabTime Hands-On Activity 4, TRB pages 69-71, TG page 84</b> <b>Chapter 5, LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102</b> <b>Chapter 6, LabTime Hands-On Activity 6, TRB pages 105-107, TG page 120</b> <b>Chapter 7, Lesson 1, Process Skill, SE page 139; Lesson 2, Process Skill, SE page 147; LabTime Hands-On Activity 7, TRB pages 123-125, TG page 138</b> <b>Chapter 8, Lesson 2, Process Skill, SE page 167; LabTime Hands-On Activity 8, TRB pages 141-143, TG page 156</b> <b>Chapter 9, LabTime Hands-On Activity 9, TRB pages 159-161, TG page 174</b>

8.8 HISTORY AND NATURE OF SCIENCE
8.8.2 By the end of eighth grade, students will develop an understanding of the nature of science.
<ul style="list-style-type: none"> <li>Understand that scientific theories are based on observations, governed by rules of reasoning, and used to predict events.</li> </ul>
<b>Chapter 2, Lesson 1, Critical Thinking, SE page 29</b> <b>Chapter 6, KnowZone, SE pages 118-119; Lesson 3, Video A, SE page 127; Video B, SE page 128; Video C, SE page 129</b>

8.8 HISTORY AND NATURE OF SCIENCE
8.8.3 By the end of eighth grade, students will develop an understanding of the history of science.
<ul style="list-style-type: none"> <li>Research and describe the difficulties experienced by scientific innovators who had to overcome commonly held beliefs of their times to reach conclusions that we now take for granted.</li> </ul>
<b>Chapter 1, Lesson 1, Video A, SE page 3; Video B, SE page 4; Video C, SE page 5; Lesson 2, Video A, SE page 9; Video B, SE page 10; Video C, SE page 11; Lesson 3, Video A, SE page 15; Video B, SE page 16</b> <b>Chapter 5 LabTime Hands-On Activity 5, TRB pages 87-89, TG page 102</b> <b>Chapter 6, Lesson 3, Video B, SE page 128; Video C, SE page 129</b> <b>Chapter 7, Lesson 2, Video B, SE page 144; LabTime Hands-On Activity 7, TRB pages 123-125, TG page 138</b> <b>Chapter 8, Lesson C, Video C, SE page 165; KnowZone, SE pages 168-169</b> <b>Chapter 9, Lesson 2 Process Skill, SE page 191</b>