

**ONTARIO-MONTCLAIR SCHOOL DISTRICT  
2009-2010**

**Grade: 3rd Course: Science**

**UNIT A – SURVIVAL OF LIVING THINGS – Adaptations in physical structure or behavior may improve an organisms chance for survival**

7/24/09

	<b>TIME FRAME</b>	<b>BIG IDEA/TOPIC</b>	<b>ESSENTIAL STANDARDS</b>	<b>OPTIONAL ASSESSMENTS</b>	<b>INSTRUCTIONAL MATERIALS</b>	<b>VOCABULARY</b>	<b>INSTRUCTIONAL CONNECTIONS</b>
<b>CHAPTER 1 / ADAPTATION TO LAND AND WATER</b>	<p><b>August 10 – September 3</b></p> <p>19 Days</p>	<p><u>Lesson 1.</u> What Organisms Live in Forests and Grasslands? Pgs: 6-13</p> <p><u>Lesson2.</u> What Organisms Live in Tundra and Deserts? Pgs: 14-23</p> <p><u>Lesson 3</u> What Organisms Live in Water Habitats? Pgs: 24-32</p>	<p><b>LIFE SCIENCE</b></p> <p><b>3.a.</b> Students know plants and animals have structures that serve different functions in growth, survival, and reproduction.</p> <p><b>3.b.</b> Students know examples of diverse life forms in different environments, such as oceans, deserts, tundra, forests, grasslands, and wetlands.</p>	<p><u>Informal Assessment</u> Lesson 1 Pg:13 Lesson 2 Pg: 21 Lesson 3 Pg: 31</p> <p><u>Chapter Review and Test Practice</u> Pgs: 36-37</p> <p><u>Assessment Resources</u></p> <ul style="list-style-type: none"> <li>Chapter Pre-Test Pgs: 13-14</li> <li>Chapter Benchmark Test Pgs: 29-32</li> <li>Performance Assessment: Pgs: 9-12 &amp; 37 (TE)</li> </ul> <p><u>Test Generator CD</u></p>	<p><b><u>HOUGHTON MIFFLIN MATERIALS &amp; RESOURCES</u></b></p> <p><u>Unit Resource Folder</u> Lesson 1 Pgs: 17-20 Lesson 2 Pgs: 21-24 Lesson 3 Pgs: 25-28</p> <p><u>Interactive Text</u></p> <p><u>Interactive Lab video</u></p> <p><u>National Geographic Video</u> "Locomotion in the Ocean"</p> <p><u>EL Resources</u> Lesson 1 Pgs: 77-78 Lesson 2 Pgs: 79-80 Lesson 3 Pgs: 81-82</p>	<ul style="list-style-type: none"> <li>adaptation</li> <li>biome</li> <li>habitat</li> <li>desert</li> <li>environment</li> <li>tundra</li> <li>aquatic habitat</li> </ul>	<p><u>Leveled Readers</u></p> <ul style="list-style-type: none"> <li>"Adaptations to Land and Water"</li> <li>"Amazing Adaptations"</li> <li>"Life on the Serengeti"</li> </ul> <p><u>Math Links</u> Pgs: 34</p> <p><u>Pressed for Time?</u> Lesson 1 Pgs: 6, 8, 10, 12 Lesson 2 Pgs: 14, 16, 18, 20 Lesson 3 Pgs: 24, 26, 28, 30</p> <p><u>Express Lab</u> Lesson 1 Pg: 9 Lesson 2 Pg: 19 Lesson 3 Pg: 27</p>
<b>CHAPTER 2 / WHEN ENVIRONMENTS CHANGE</b>	<p><b>September 4 – October1</b></p> <p>20 Days</p>	<p><u>Lesson 1.</u> How Do Living Things Compete? Pgs: 42-50</p> <p><u>Lesson 2</u> How Do Living Things Change Environments? Pgs: 52-60</p>	<p><b>LIFE SCIENCE</b></p> <p><b>3.c.</b> Students know living things cause changes in the environment in which they live. Some of these changes are detrimental to the organism or other organisms, and are beneficial.</p> <p><b>3.d.</b> Students know when the environment changes, some plants and animals survive and reproduce; others die or move to new locations.</p>	<p><u>Informal Assessment</u> Lesson 1 Pg: 49 Lesson 2 Pg: 59</p> <p><u>Chapter Review and Practice</u> Pgs: 64-65</p> <p><u>Assessment Resources</u></p> <ul style="list-style-type: none"> <li>Chapter Pre-Test Pgs: 34-35</li> <li>Chapter Benchmark Test Pgs: 46-49</li> <li>Performance Assessment: Pgs: 65 (TE)</li> </ul> <p><u>Test Generator CD-ROM</u></p>	<p><b><u>HOUGHTON MIFFLIN MATERIALS &amp; RESOURCES</u></b></p> <p><u>Unit Resource Folder</u> Lesson 1 Pgs: 38-41 Lesson 2 Pgs: 42-45</p> <p><u>Interactive Text</u></p> <p><u>Interactive Lab Video</u></p> <p><u>National Geographic Video</u> "Insects"</p> <p><u>EL Resources</u> Lesson 1 Pgs: 83-84 Lesson 2 Pgs: 85-86</p>	<ul style="list-style-type: none"> <li>community</li> <li>competition</li> <li>ecosystem</li> <li>population</li> <li>reproduce</li> <li>resource</li> <li>drought</li> <li>pollution</li> </ul>	<p><u>Leveled Readers</u></p> <ul style="list-style-type: none"> <li>"When Environments Change"</li> <li>"Wild Adaptations"</li> <li>"Forced Out"</li> </ul> <p><u>Math Links</u> Pgs: 62</p> <p><u>Pressed for Time?</u> Lesson 1 Pgs: 42, 44, 46, 48 Lesson 2 Pgs: 52, 54, 56, 60</p> <p><u>Express Lab</u> Lesson 1 Pg: 45 Lesson 2 Pg: 55</p>

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**UNIT A – SURVIVAL OF LIVING THINGS –** *Adaptations in physical structure or behavior may improve an organism’s chance for survival.*

CHAPTER 3 / ORGANISMS OF LONG AGO	TIME FRAME	BIG IDEA/TOPIC	STANDARDS	OPTIONAL ASSESSMENTS	INSTRUCTIONAL MATERIALS	VOCABULARY	NOTES
	<p>October 2 – November 3  22 Days</p>	<p><b>Lesson 1.</b> What Threatens The Survival of Species? Pgs. 70-73</p> <p><b>Lesson 2.</b> What Can Be Learned from Fossils? Pgs. 78-84</p> <p><b>Lesson 3</b> How Are Extinct and Living Things Alike? Pgs. 88-96</p>	<p><b>LIFE SCIENCE</b> <b>3.d.</b> Students know when the environment changes, some plants and animals survive and reproduce; others die or move to new locations.</p> <p><b>3.e.</b> Students know that some kinds of organisms that once lived on the Earth have completely disappeared and that some of those resembled others that are alive today.</p>	<p><b>Informal Assessment</b> <u>Lesson 1</u> Pg: 77 <u>Lesson 2</u> Pg: 83 <u>Lesson 3</u> Pg: 95</p> <p><b>Chapter Review and Practice</b> Pgs: 100-101</p> <p><b>Assessment Resources</b></p> <ul style="list-style-type: none"> <li>Chapter Pre-Test Pgs: 51-52</li> <li>Chapter Benchmark Test Pgs: 70-73</li> <li>Performance Assessment: Pgs: 101 (TE)</li> </ul> <p><b>Test Generator CD-ROM</b></p>	<p><b>HOUGHTON MIFFLIN MATERIALS &amp; RESOURCES</b></p> <p><b>Unit Resource Folder</b> <u>Lesson 1</u> Pgs: 55-60 <u>Lesson 2</u> Pgs: 61-64 <u>Lesson 3</u> Pgs: 65-69</p> <p><b>Interactive Text</b></p> <p><b>Interactive Lab Video</b></p> <p><b>EL Resources</b> <u>Lesson 1</u> Pgs: 87-88 <u>Lesson 2</u> Pgs: 89-90 <u>Lesson 3</u> Pgs: 91-92</p>	<ul style="list-style-type: none"> <li>extinct species</li> <li>endangered species</li> <li>era</li> <li>fossil</li> <li>paleontologist</li> <li>ancestor</li> <li>relative</li> <li>trait</li> </ul>	<p><b>Leveled Readers</b></p> <ul style="list-style-type: none"> <li>“Organisms of Long Ago”</li> <li>“Amber”</li> <li>“Mary Anning Fossil Hunter”</li> </ul> <p><b>Math Links</b> Pgs: 98</p> <p><b>Pressed for Time?</b> <u>Lesson 1</u> Pgs: 70, 72, 74, 76 <u>Lesson 2</u> Pgs: 78, 80, 82 <u>Lesson 3</u> Pgs: 88, 90, 92, 94</p> <p><b>Express Lab</b> <u>Lesson 1</u> Pg: 9 <u>Lesson 2</u> Pg:19 <u>Lesson 3</u> Pg: 27</p>

OCTOBER 22 – OCTOBER 29, 2009: BENCHMARK 2

NOVEMBER 16 – NOVEMBER 20, 2009 PARENT CONFERENCES

ONTARIO-MONTCLAIR SCHOOL DISTRICT

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**PATTERNS IN THE SKY – UNIT B – *Objects in the sky move in regular and predictable patterns.***

CHAPTER 4 / OUR SOLAR SYSTEM	TIME FRAME	BIG IDEA/TOPIC	ESSENTIAL STANDARDS	OPTIONAL ASSESSMENTS	INSTRUCTIONAL MATERIALS	VOCABULARY	INSTRUCTIONAL CONNECTIONS
	<p>November 4 – December 2  15 Days</p>	<p><b>Lesson 1</b> How Do Scientists Use Telescopes? Pgs: 110-116</p> <p><b>Lesson 2</b> What Is the Solar System? Pgs: 118-121</p> <p><b>Lesson 3</b> What Are the Inner Planets? Pgs: 126-129</p> <p><b>Lesson 4</b> What Are the Outer Planets? Pgs: 134-142</p>	<p><b>EARTH SCIENCE</b></p> <p><b>4.c.</b> Students know telescopes magnify the appearance of some distant objects in the sky, including the Moon and the planets. The number of stars that can be seen through telescopes is dramatically greater than the number that can be seen by the unaided eye.</p> <p><b>1.a.</b> Students know energy comes from the Sun to Earth in the form of light.</p> <p><b>4.d.</b> Students know that Earth is one of several planets that orbit the Sun and that the Moon orbits the Earth.</p>	<p><b>Informal Assessment</b> <u>Lesson 1</u> Pg: 115 <u>Lesson 2</u> Pg: 125 <u>Lesson 3</u> Pg: 133 <u>Lesson 4</u> Pg: 141</p> <p><b>Chapter Review and Practice</b> Pgs: 146-147</p> <p><b>Assessment Resources</b></p> <ul style="list-style-type: none"> <li>• Chapter Pre-Test Pgs: 87-88</li> <li>• Chapter Benchmark Test Pgs: 107-110</li> <li>• Performance Assessment: Pgs: 83-86 &amp; 147 (TE)</li> </ul> <p><b>Test Generator CD-ROM</b></p>	<p><b>HOUGHTON MIFFLIN MATERIALS &amp; RESOURCES</b></p> <p><b>Unit Resource Folder</b> <u>Lesson 1</u> Pgs: 91-94 <u>Lesson 2</u> Pgs: 95-98 <u>Lesson 3</u> Pgs: 99-102 <u>Lesson 4</u> Pgs: 103-106</p> <p><b>Interactive Text</b></p> <p><b>Interactive Lab Video</b></p> <p><b>National Geographic Video</b> "Solar system"</p> <p><b>EL Resources</b> <u>Lesson 1</u> Pgs: 93-94 <u>Lesson 2</u> Pgs: 95-96 <u>Lesson 3</u> Pgs: 97-98 <u>Lesson 4</u> Pgs: 99-100</p>	<ul style="list-style-type: none"> <li>• magnify</li> <li>• telescope</li> <li>• inner planets</li> <li>• orbit</li> <li>• planet</li> <li>• sun</li> <li>• moon</li> <li>• outer planets</li> <li>• solar system</li> <li>• space probe</li> <li>• gas giant</li> </ul>	<p><b>Leveled Reader</b></p> <ul style="list-style-type: none"> <li>• "Our Solar System"</li> <li>• "15 Facts About the Solar System"</li> <li>• "A Visit to the Planetarium"</li> </ul> <p><b>Math Links</b> Pgs: 144</p> <p><b>Pressed for Time?</b> <u>Lesson 1</u> Pgs: 110, 112, 114 <u>Lesson 2</u> Pgs: 118, 120, 122, 124 <u>Lesson 3</u> Pgs: 126, 128, 130, 132 <u>Lesson 4</u> Pgs: 134, 136, 138, 140</p> <p><b>Express Lab</b> <u>Lesson 1</u> Pg: 113 <u>Lesson 2</u> Pg: 121 <u>Lesson 3</u> Pg: 129 <u>Lesson 4</u> Pg: 137</p>

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CHAPTER 5 / CYCLES AND PATTERNS IN SPACE	TIME FRAME	BIG IDEA/TOPIC	ESSENTIAL STANDARDS	OPTIONAL ASSESSMENTS	INSTRUCTIONAL MATERIALS	VOCABULARY	INSTRUCTIONAL CONNECTIONS
	<p>December 3 – January 6  19 Days</p>	<p><u>Lesson 1</u> What Causes Day and Night? Pgs: 152-155</p> <p><u>Lesson 2</u> What Causes the Seasons? Pg: 158-161</p> <p><u>Lesson 3</u> What Are the Phases of the Moon? Pgs: 166-174</p> <p><u>Lesson 4</u> What Is a Star? Pgs: 176-184</p>	<p><b>EARTH SCIENCE</b></p> <p><b>1.a.</b> Students know energy comes from the Sun to Earth in the form of light.</p> <p><b>4.e.</b> Students know the position of the Sun in the sky changes during the course of the day and from season to season.</p> <p><b>4.d.</b> Students know that Earth is one of several planets that orbit the Sun and that the Moon orbits Earth.</p> <p><b>2.b.</b> Students know light is reflected from mirrors and other surfaces.</p> <p><b>4.b.</b> Students know the way in which the Moon’s appearance changes during the four-week lunar cycle.</p> <p><b>4.a.</b> Students know the patterns of stars stay the same, although they appear to move across the sky nightly, and different stars can be seen in different seasons.</p>	<p><b>Informal Assessment</b></p> <p><u>Lesson 1</u> Pg: 157 <u>Lesson 2</u> Pg: 165 <u>Lesson 3</u> Pg: 173 <u>Lesson 4</u> Pg: 183</p> <p><b>Chapter Review and Practice</b> Pgs: 188-189</p> <p><b>Assessment Resources</b></p> <ul style="list-style-type: none"> <li>Chapter Pre-Test Pgs: 112-113</li> <li>Chapter Benchmark Test Pgs: 133-136</li> <li>Performance Assessment: Pgs: 189 (TE)</li> </ul> <p><b>Test Generator CD-ROM</b></p>	<p><b><u>HOUGHTON MIFFLIN MATERIALS &amp; RESOURCES</u></b></p> <p><b>Unit Resource Folder</b></p> <p><u>Lesson 1</u> Pgs: 116-119 <u>Lesson 2</u> Pgs: 120-123 <u>Lesson 3</u> Pgs: 124-127 <u>Lesson 4</u> Pgs: 128-132</p> <p><b>Interactive Text</b></p> <p><b>Interactive Lab Video</b></p> <p><b>National Geographic Video</b> “Sun, Earth, Moon”</p> <p><b>EL Resources</b></p> <p><u>Lesson 1</u> Pgs: 101-102 <u>Lesson 2</u> Pgs: 103-104 <u>Lesson 3</u> Pgs: 105-106 <u>Lesson 4</u> Pgs: 107-108</p>	<ul style="list-style-type: none"> <li>axis</li> <li>rotate</li> <li>equator</li> <li>season</li> <li>revolve</li> <li>crescent moon</li> <li>quarter moon</li> <li>full moon</li> <li>waning moon</li> <li>new moon</li> <li>waxing moon</li> <li>constellation star</li> </ul>	<p><b>Leveled Readers</b></p> <ul style="list-style-type: none"> <li>“Cycles and Patterns in Space”</li> <li>“Maria Mitchell”</li> <li>“Space Animal”</li> </ul> <p><b>Math Links</b> Pgs: 186</p> <p><b>Pressed for Time?</b></p> <p><u>Lesson 1</u> Pgs: 152, 154, 156 <u>Lesson 2</u> Pgs: 158, 160, 162, 164 <u>Lesson 3</u> Pgs: 166, 168, 170, 172 <u>Lesson 4</u> Pgs: 176, 178, 180, 182</p> <p><b>Express Lab</b></p> <p><u>Lesson 1</u> Pg: 155 <u>Lesson 2</u> Pg: 161 <u>Lesson 3</u> Pg: 174 <u>Lesson 4</u> Pg: 179</p>

ONTARIO-MONTCLAIR SCHOOL DISTRICT

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**UNIT C – MATTER-** *Energy and matter have multiple forms and can be changed from one form to another.*

CHAPTER 6 / PROPERTIES OF MATTER	TIME FRAME	BIG IDEA/TOPIC	ESSENTIAL STANDARDS	ASSESSMENTS	INSTRUCTIONAL MATERIALS	VOCABULARY	INSTRUCTIONAL CONNECTIONS
	<p>January 7 – February 2</p> <p>18 Days</p>	<p><b>Lesson 1</b> What Is Matter? Pgs: 198-206</p> <p><b>Lesson 2</b> What Are the Forms of Matter? Pgs: 208-213</p> <p><b>Lesson 3</b> How Does Heat Change Matter? Pgs: 216-226</p>	<p><b>PHYSICAL SCIENCE</b></p> <p><b>1.3.</b> Students know matter has three forms: solid, liquid, and gas.</p> <p><b>1.f.</b> Students know evaporation and melting are changes that occur when objects are heated.</p> <p><b>1.h.</b> Students know all matter is made of small particles called atoms, too small to see with the naked eye.</p>	<p><b>Informal Assessment</b> Lesson 1 Pg: 205 Lesson 2 Pg: 215 Lesson 3 Pg: 225</p> <p><b>Chapter Review and Practice</b> Pgs: 167-170</p> <p><b>Assessment Resources</b></p> <ul style="list-style-type: none"> <li>Chapter Pre-Test Pgs: 151-152</li> <li>Chapter Benchmark Test Pgs: 167-170</li> <li>Performance Assessment: Pgs: 147-150 &amp; 231 (TE)</li> </ul> <p><b>Test Generator CD-ROM</b></p>	<p><b>HOUGHTON MIFFLIN MATERIALS &amp; RESOURCES</b></p> <p><b>Unit Resource Folder</b> Lesson 1 Pgs: 155-158 Lesson 2 Pgs: 159-162 Lesson 3 Pgs: 163-166</p> <p><b>Interactive Text</b></p> <p><b>Interactive Lab Video</b></p> <p><b>National Geographic Video</b> "Properties of Matter"</p> <p><b>EL Resources</b> Lesson 1 Pgs: 109-110 Lesson 2 Pgs: 111-112 Lesson 3 Pgs: 113-114</p>	<ul style="list-style-type: none"> <li>atom</li> <li>physical change</li> <li>matter</li> <li>physical property</li> <li>gas</li> <li>liquid</li> <li>solid</li> <li>condense</li> <li>evaporate</li> <li>thermal energy</li> <li>freeze</li> </ul>	<p><b>Leveled Readers</b></p> <ul style="list-style-type: none"> <li>"Properties of Matter"</li> <li>"The Mystery of the Blue Box"</li> <li>"Seeing With Heart"</li> </ul> <p><b>Math Links</b> Pgs: 228</p> <p><b>Pressed for Time?</b> Lesson 1 Pgs: 198, 200, 202, 204 Lesson 2 Pgs: 208, 210, 212, 214 Lesson 3 Pgs: 216, 218, 220, 222, 224</p> <p><b>Express Lab</b> Lesson 1 Pg: 201 Lesson 2 Pg: 213 Lesson 3 Pg: 219</p>

**FEBRUARY 4 – FEBRUARY 11, 2010: BENCHMARK 4**

CHAPTER 7 / CHEMICAL CHANGES							
	<p>February 3 – March 3</p> <p>19 Days</p>	<p><b>Lesson 1</b> What Is Matter? Pgs: 236-246</p> <p><b>Lesson 2</b> What Is a Chemical Change in Matter? Pgs: 248-256</p>	<p><b>PHYSICAL SCIENCE</b></p> <p><b>1.i.</b> Students know people once thought that earth, wind, fire, and water were the basic elements that made up all matter. Science experiments show that there are more than 100 different types of atoms, which are presented on the periodic table of elements.</p> <p><b>1.h.</b> Students know all matter is made of small particles called atoms, too small to see with the naked eye.</p>	<p><b>Informal Assessment</b> Lesson 1 Pg: 245 Lesson 2 Pg: 255</p> <p><b>Chapter Review and Practice</b> Pg: 260-261</p> <p><b>Assessment Resources</b></p> <ul style="list-style-type: none"> <li>Chapter Pre-Test Pgs: 172-173</li> <li>Chapter Benchmark Test Pgs: 184-187</li> <li>Performance Assessment Pg: 261 (TE)</li> </ul> <p><b>Test Generator CD-ROM</b></p>	<p><b>HOUGHTON MIFFLIN MATERIALS &amp; RESOURCES</b></p> <p><b>Unit Resource Folder</b> Lesson 1 Pgs: 176-179 Lesson 2 Pgs: 180-183</p> <p><b>Interactive Text</b></p> <p><b>Interactive Lab Video</b></p> <p><b>National Geographic Video</b> "Changes In Matter"</p> <p><b>EL Resources</b> Lesson 1 Pgs: 115-116 Lesson 2 Pgs: 117-118</p>	<ul style="list-style-type: none"> <li>compound</li> <li>mixture</li> <li>element</li> <li>periodic table</li> <li>chemical change</li> <li>chemical property</li> </ul>	<p><b>Leveled Readers</b></p> <ul style="list-style-type: none"> <li>"Chemical Changes"</li> <li>"Invisible Ink"</li> <li>"Kitchen Science"</li> </ul> <p><b>Math Links</b> Pg: 258</p> <p><b>Pressed for Time?</b> Lesson 1 Pgs: 270, 272, 274 Lesson 2 Pgs: 276, 278, 280, 282</p> <p><b>Express Lab</b> Lesson 1 Pg: 273 Lesson 2 Pg: 279</p>

**MARCH 15 – MARCH 19, 2010: PARENT CONFERENCES**

ONTARIO-MONTCLAIR SCHOOL DISTRICT

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**UNIT D – ENERGY –** *Energy and matter have multiple forms and can be changed from one form to another. Light has a source and travels in a direction.*

CHAPTER 8 / FORMS OF ENERGY	TIME FRAME	BIG IDEA/TOPIC	ESSENTIAL STANDARDS	OPTIONAL ASSESSMENTS	INSTRUCTIONAL MATERIALS	VOCABULARY	INSTRUCTIONAL CONNECTIONS
	<p>March 4 – April 7</p> <p>20 Days</p>	<p><u>Lesson 1</u> What Is Energy? Pgs: 270-273</p> <p><u>Lesson 2</u> How is Energy Converted? Pgs: 276-284</p> <p><u>Lesson 3</u> What Are Waves? Pgs: 286-294</p> <p><u>Lesson 4</u> What Is Electrical Energy? Pgs: 298-303</p>	<p><b>PHYSICAL SCIENCE</b></p> <p><b>1.a.</b> Students know energy comes from the Sun to Earth in the form of light.</p> <p><b>1.b.</b> Students know sources of stored energy take many forms, such as food, fuel, and batteries.</p> <p><b>1.c.</b> Students know machines and living things convert stored energy to motion and heat.</p> <p><b>1.d.</b> Students know energy can be carried from one place to another by waves, such as water waves and sound waves, by electric current, and by moving objects.</p>	<p><u>Informal Assessment</u></p> <p><u>Lesson 1</u> Pg: 275 <u>Lesson 2</u> Pg: 283 <u>Lesson 3</u> Pg: 293 <u>Lesson 4</u> Pg: 305</p> <p><u>Chapter Review and Practice</u> Pgs: 308-309</p> <p><u>Assessment Resources</u></p> <ul style="list-style-type: none"> <li>• Chapter Pre-Test Pgs: 210-211</li> <li>• Chapter Benchmark Pgs: 230-233</li> <li>• Performance Assessment Pgs: 197-200 &amp; 309 (TE)</li> </ul> <p><u>Test Generator CD-ROM</u></p>	<p><u>HOUGHTON MIFFLIN MATERIALS &amp; RESOURCES</u></p> <p><u>Unit Resource Folder</u></p> <p><u>Lesson 1</u> Pgs: 214-217 <u>Lesson 2</u> Pgs: 218-221 <u>Lesson 3</u> Pgs: 222-225 <u>Lesson 4</u> Pgs: 226-229</p> <p><u>Interactive Text</u></p> <p><u>Interactive Lab Video</u></p> <p><u>National Geographic Video</u> “Wonder of Sound”</p> <p><u>EL Resources</u></p> <p><u>Lesson 1</u> Pgs: 119-120 <u>Lesson 2</u> Pgs: 121-122 <u>Lesson 3</u> Pgs: 123-124 <u>Lesson 4</u> Pgs: 125-126</p>	<ul style="list-style-type: none"> <li>• energy</li> <li>• friction</li> <li>• kinetic energy</li> <li>• potential energy</li> <li>• crest</li> <li>• vibrate</li> <li>• trough</li> <li>• wave</li> <li>• electric circuit</li> <li>• electric current</li> </ul>	<p><u>Leveled Readers</u></p> <ul style="list-style-type: none"> <li>• “Forms of Energy”</li> <li>• “Tsunami”</li> <li>• “Windmills”</li> </ul> <p><u>Math Links</u> Pgs: 306</p> <p><u>Pressed for Time?</u></p> <p><u>Lesson 1</u> Pgs: 270, 272, 274 <u>Lesson 2</u> Pgs: 276, 278, 280, 282 <u>Lesson 3</u> Pgs: 286, 288, 290, 292 <u>Lesson 4</u> Pgs: 298, 300, 302, 304</p> <p><u>Express Lab</u></p> <p><u>Lesson 1</u> Pg: 273 <u>Lesson 2</u> Pg: 279 <u>Lesson 3</u> Pg: 291 <u>Lesson 4</u> Pg: 303</p>

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**UNIT D – ENERGY** – *Energy and matter have multiple forms and can be changed from one form to another. Light has a source and travels in a direction.*

CHAPTER 9 / LIGHT	TIME FRAME	BIG IDEA/TOPIC	ESSENTIAL STANDARDS	OPTIONAL ASSESSMENTS	INSTRUCTIONAL MATERIALS	VOCABULARY	INSTRUCTIONAL CONNECTIONS
	<p>April 8 – May 5 19 Days</p>	<p><u>Lesson 1</u> What Is Light? Pgs: 314-319</p> <p><u>Lesson 2</u> How Is Light Reflected? Pgs: 322-336</p> <p><u>Lesson 3.</u> What Is Color? Pgs: 330-336</p>	<p><b>PHYSICAL SCIENCE</b></p> <p><b>2.a.</b> Students know that sunlight can be blocked to create shadows.</p> <p><b>2.d.</b> Students know an object is seen when light traveling from the object enter the eye.</p> <p><b>2.b.</b> Students know that light is reflected from mirrors and other surfaces.</p> <p><b>2.c.</b> Students know the color of light striking an object affects the way the object is seen.</p>	<p><u>Informal Assessment</u> <u>Lesson 1</u> Pg: 321 <u>Lesson 2</u> Pg: 327 <u>Lesson 3</u> Pg: 335</p> <p><u>Chapter Review and Practice</u> Pgs: 340-341</p> <p><u>Assessment Resources</u></p> <ul style="list-style-type: none"> <li>• Chapter Pre-Test Pgs: 235-236</li> <li>• Chapter Benchmark Pgs: 251-254</li> <li>• Performance Assessment Pgs: 341 (TE)</li> </ul> <p><u>Test Generator CD-ROM</u></p>	<p><b><u>HOUGHTON MIFFLIN MATERIALS &amp; RESOURCES</u></b></p> <p><u>Unit Resource Folder</u> <u>Lesson 1</u> Pgs: 239-242 <u>Lesson 2</u> Pgs: 243-246 <u>Lesson 3</u> Pgs: 247-250</p> <p><u>Interactive Text</u></p> <p><u>Interactive Lab Video</u></p> <p><u>National Geographic Video</u> "Light"</p> <p><u>EL Resources</u> <u>Lesson 1</u> Pgs: 127-128 <u>Lesson 2</u> Pgs: 129-130 <u>Lesson 3</u> Pgs: 131-132</p>	<ul style="list-style-type: none"> <li>• light</li> <li>• translucent</li> <li>• shadow</li> <li>• opaque</li> <li>• transparent</li> <li>• lens</li> <li>• reflect</li> <li>• refract</li> <li>• absorb</li> <li>• prism</li> </ul>	<p><u>Leveled Readers</u></p> <ul style="list-style-type: none"> <li>• "Light"</li> <li>• "Shadow Shows"</li> <li>• "Prisms and Rainbows"</li> </ul> <p><u>Math Links</u> Pgs: 338</p> <p><u>Pressed for Time?</u> <u>Lesson 1</u> Pgs: 314, 316, 318, 320 <u>Lesson 2</u> Pgs: 322, 324, 326 <u>Lesson 3</u> Pgs: 330, 332, 334, 336</p> <p><u>Express Lab</u> <u>Lesson 1</u> Pg: 319 <u>Lesson 2</u> Pg: 325 <u>Lesson 3</u> Pg: 333</p>

**MAY 6 – MAY 25, 2010: REVIEW/RETEACH**