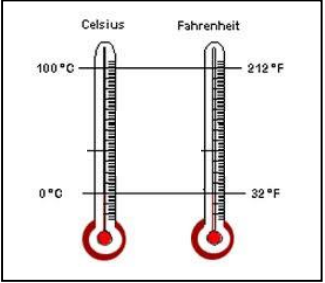

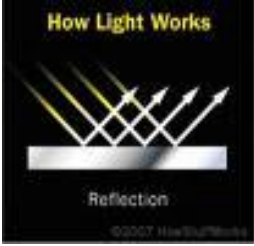


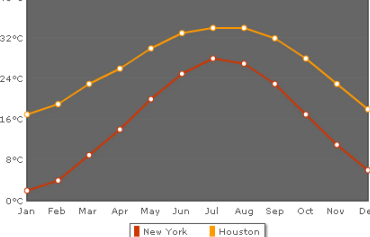
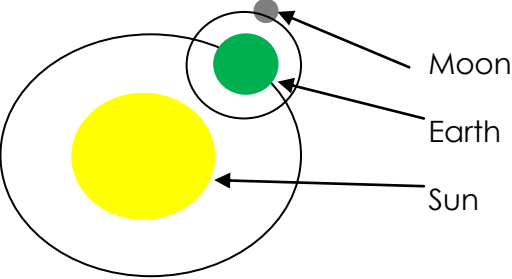
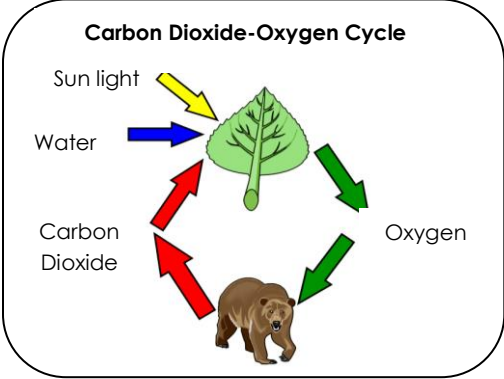


<p>1st Six Weeks August 22 – September 30</p>	<p>2nd Six Weeks October 3 – November 4</p>	<p>3rd Six Weeks November 7 – December 20</p>																																							
<p><u>Matter and Energy</u></p> <ul style="list-style-type: none"> Classify matter based on the following physical properties: <ul style="list-style-type: none"> mass magnetism physical states (solid, liquid, and gas) relative density (sinking and floating) solubility in water the ability to conduct or insulate thermal energy or electric energy. Identify the boiling and freezing/melting points of water on the Celsius scale.  <ul style="list-style-type: none"> Demonstrate that some mixtures maintain physical properties of their ingredients. (Ex: If you mix iron filings with sand, the ingredients maintain their separate properties.) Identify changes that can occur in the physical properties of the ingredients of solutions. (Ex: Dissolving salt in water or adding lemon juice to water are examples of solutions where changes occur in the physical properties of the 	<p><u>Force, Motion and Energy</u></p> <ul style="list-style-type: none"> Explore the uses of energy, including mechanical, light, thermal, electrical, and sound energy. Demonstrate that the flow of electricity in circuits requires a complete path through which an electric current can pass and can produce light, heat, and sound. Demonstrate that light travels in a straight line until it strikes an object or travels through one medium to another and demonstrate that light can be reflected (Ex: the use of mirrors or shiny surfaces) or refracted (Ex: the appearance of an object when observed through water or through a lens). Design an experiment that tests the effect of force on an object. <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div data-bbox="856 805 978 831" style="text-align: center;"> <p>Reflection</p>  </div> <div data-bbox="1125 805 1247 831" style="text-align: center;"> <p>Refraction</p>  </div> </div>	<p><u>Earth and Space</u></p> <ul style="list-style-type: none"> Explain how the Sun and the ocean interact in the water cycle. Differentiate between weather and climate. <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div data-bbox="1402 431 1570 711">  <p>Sunny</p> <p>26°C Feels Like: 26°</p> <p>Past 24-hr: Precip: 0 mm Snow: 0 mm</p> <p>Wind: From NNW at 16kmh</p> </div> <div data-bbox="1612 456 1997 708">  <table border="1"> <caption>Climate Data (Approximate)</caption> <thead> <tr> <th>Month</th> <th>New York (°C)</th> <th>Houston (°C)</th> </tr> </thead> <tbody> <tr><td>Jan</td><td>0</td><td>10</td></tr> <tr><td>Feb</td><td>2</td><td>12</td></tr> <tr><td>Mar</td><td>5</td><td>15</td></tr> <tr><td>Apr</td><td>10</td><td>20</td></tr> <tr><td>May</td><td>15</td><td>25</td></tr> <tr><td>Jun</td><td>20</td><td>30</td></tr> <tr><td>Jul</td><td>25</td><td>32</td></tr> <tr><td>Aug</td><td>25</td><td>32</td></tr> <tr><td>Sep</td><td>20</td><td>30</td></tr> <tr><td>Oct</td><td>15</td><td>25</td></tr> <tr><td>Nov</td><td>10</td><td>20</td></tr> <tr><td>Dec</td><td>5</td><td>15</td></tr> </tbody> </table> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div data-bbox="1430 743 1535 769" style="text-align: center;"> <p>Weather</p> </div> <div data-bbox="1787 743 1892 769" style="text-align: center;"> <p>Climate</p> </div> </div>	Month	New York (°C)	Houston (°C)	Jan	0	10	Feb	2	12	Mar	5	15	Apr	10	20	May	15	25	Jun	20	30	Jul	25	32	Aug	25	32	Sep	20	30	Oct	15	25	Nov	10	20	Dec	5	15
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<p>4th Six Weeks January 5 – February 17</p>	<p>5th Six Weeks February 21 – April 7</p>	<p>6th Six Weeks April 10 – May 25</p>
<p><u>Earth and Space</u></p> <ul style="list-style-type: none"> Recognize how landforms such as deltas, canyons, and sand dunes are the result of changes to Earth's surface by wind, water, and ice. Explore the processes that led to the formation of sedimentary rocks and fossil fuels. Identify fossils as evidence of past living organisms and the nature of the environments at the time using models. Identify alternative energy resources such as wind, solar, hydroelectric, geothermal, and biofuels. Identify and compare the physical characteristics of the Sun, Earth, and Moon. Demonstrate that Earth rotates on its axis once approximately every 24 hours causing the day/night cycle and the apparent movement of the Sun across the sky. 	<p><u>Organisms and Environments</u></p> <ul style="list-style-type: none"> Describe the differences between complete and incomplete metamorphosis of insects. Compare the structures and functions of different species that help them live and survive such as hooves on prairie animals or webbed feet in aquatic animals. Differentiate between inherited traits of plants and animals such as spines on a cactus or shape of a beak and learned behaviors such as an animal learning tricks or a child riding a bicycle. Observe the way organisms live and survive in their ecosystem by interacting with the living and non-living elements. Identify the significance of the carbon dioxide-oxygen cycle to the survival of plants and animals.  <ul style="list-style-type: none"> Describe how the flow of energy derived from the Sun, used by producers to create their own food, is transferred through a food chain and food web to consumers and decomposers Predict the effects of changes in ecosystems caused by living organisms, including humans, such as the overpopulation of grazers or the building of highways. 	<p><u>Matter and Energy</u></p> <p><u>Force, Motion, and Energy</u></p> <p><u>Earth and Space</u></p> <p><u>Organisms and Environments</u></p> <p><u>Scientific Investigation and Reasoning Skills</u></p> <ul style="list-style-type: none"> Application of Science Concepts taught throughout the year reinforcing all 5th grade Science Texas Essential Knowledge and Skills as mandated by the State of Texas in preparation of the STAAR test. <p>*STAAR Science test will be administered April 24, 2013.</p>