

<b>Grade 4</b>	
<b>Core Themes, Content Standards and Expected Performances</b>	
<b>Content Standards</b>	<b>Expected Performances</b>
<p><i>Forces and Motion – What makes objects move the way they do? (PHYS)</i></p> <p><b>4.1 - The position and motion of objects can be changed by pushing or pulling.</b></p> <ul style="list-style-type: none"> <li>◆ The size of the change in an object’s motion is related to the strength of the push or pull.</li> <li>◆ The more massive an object is, the less effect a given force will have on its motion.</li> </ul>	<p><b>B8</b> - Describe the effects of the strengths of pushes and pulls on the motion of objects.</p> <p><b>B9</b> -Describe the effect of the mass of an object on its motion.</p> <p><b><u>STC KIT: MOTION AND DESIGN</u></b></p>
<p><i>Matter and Energy in Ecosystems – How do matter and energy flow through ecosystems? (BIO)</i></p> <p><b>4.2 - All organisms depend on the living and non-living features of the environment for survival.</b></p> <ul style="list-style-type: none"> <li>◆ When the environment changes, some organisms survive and reproduce, and others die or move to new locations.</li> </ul>	<p><b>B10</b> Describe how animals, directly or indirectly, depend on plants to provide the food and energy they need in order to grow and survive.</p> <p><b>B11</b> Describe how natural phenomena and some human activities may cause changes to habitats and their inhabitants.</p> <p><b><u>STC KIT: ECOSYSTEMS</u></b></p>
<p><i>Energy in the Earth’s Systems – How do external and internal sources of energy affect the Earth’s systems? (EARTH)</i></p> <p><b>4.3 - Water has a major role in shaping the Earth’s surface.</b></p> <ul style="list-style-type: none"> <li>◆ Water circulates through the Earth’s crust, oceans and atmosphere.</li> </ul>	<p><b>B12</b> Describe how the sun’s energy impacts the water cycle.</p> <p><b>B13</b> Describe the role of water in erosion and river formation.</p> <p><b><u>STC KIT: LAND/WATER</u></b></p>
<p><i>Energy Transfer and Transformations – What is the role of energy in our world? (PHYS)</i></p> <p><b>4.4 - Electrical and magnetic energy can be transferred and transformed.</b></p> <ul style="list-style-type: none"> <li>◆ Electricity in circuits can be transformed into light, heat, sound and magnetic effects.</li> <li>◆ Magnets can make objects move without direct contact between the object and the magnet.</li> </ul>	<p><b>B14</b> Describe how batteries and wires can transfer energy to light a light bulb.</p> <p><b>B15</b> Explain how simple electrical circuits can be used to determine which materials conduct electricity.</p> <p><b>B16</b> Describe the properties of magnets, and how they can be used to identify and separate mixtures of solid materials.</p> <p><b><u>STC KIT: CIRCUITS</u></b></p> <p><b><u>REQUIRED CMT EMBEDDED TASK: GO WITH THE FLOW (Light Bulb)</u></b></p>