

Unit Name: Energy

Enduring Understandings	Standards Addressed	Essential Questions	Anchor Lessons	Optional Lessons
<p>1. Energy is the ability to cause motion or create change.</p>	<p>PS4 Identify the basic forms of energy (Light, sound, heat, electrical and magnetic).</p>	<p>How does energy change?</p>	<p>Primary Energy Infobook Activity 1-Make a Hot or Cold Mitt Activity 2-Pass Your Energy Along Activity 3-Roll Back Toy Kids Discover-Energy Scott Foresman, <i>Energy</i>, Chapter 13 Lesson 1- What is energy? Lesson 2- How does energy change form? Sciencosaur- A Student Handbook, 285-6 Handout-Potential and Kinetic Energy</p>	<p>Scott Foresman, <i>Energy</i>, Chapter 13 Lesson 4-What is light energy?</p>
<p>2. As electrical energy moves, it produces electricity.</p>	<p>PS6 Understand that electricity in circuits requires a complete loop for an electrical current and can produce light, heat and sound. PS7 Understand objects and materials can be conductors or insulators of electricity.</p>	<p>What does electricity need to create an electrical current?</p>	<p>Sciencosaur- A Student Handbook, 298-304 Delta Education-Electrical Supply Kit Activity 1- Making a Simple Circuit</p>	
<p>3. Electricity produces force (magnetism) that pulls across a distance.</p>	<p>PS8 Create and use an electromagnet. PS9 Demonstrate magnets have poles that repel and attract each other. PS10 Demonstrate a magnet will attract some objects and materials but not others.</p>	<p>How do electromagnets attract objects?</p>	<p>Sciencosaur- A Student Handbook, 304-7 Handout-Magnets Handout-Electromagnetism</p>	

REQUIRED ASSESSMENT – Common assessment: Potential and Kinetic Energy and Electricity: Conductor/Insulator Test