

<b>DEPARTMENT: SCIENCE</b>	<b>UNIT TITLE: ELECTRIC CIRCUITS</b>
<b>GRADE: 4</b>	

<b>SECTION</b>	<b>LENGTH</b>	<b>CONTENT</b>	<b>SKILLS</b>	<b>METHODS OF ASSESSMENT</b>	<b>FRAMEWORK STRAND(S) &amp; STANDARD(S) Grades 3-5</b>
Electric circuit	3 lessons	<ul style="list-style-type: none"> <li>A complete circuit is required for electricity to flow.</li> <li>A complete circuit can be made in more than one way using the same materials.</li> </ul>	<ul style="list-style-type: none"> <li>Use wires, batteries and bulbs to create basic electric circuits.</li> </ul>	<ul style="list-style-type: none"> <li>Student worksheets</li> <li>Teacher observation checklist</li> </ul>	PS 6.
Insulators and conductors	2 lessons	<ul style="list-style-type: none"> <li>Electricity will flow through a some materials and not through other materials.</li> </ul>	<ul style="list-style-type: none"> <li>Make a simple circuit tester.</li> <li>Chart results of an investigation</li> </ul>	<ul style="list-style-type: none"> <li>Student worksheets</li> <li>Teacher observation checklist</li> </ul>	PS 6., 7.
Switches and hidden circuits	3 lessons	<ul style="list-style-type: none"> <li>A complete circuit is required for electricity to flow.</li> </ul>	<ul style="list-style-type: none"> <li>Wire a simple electric switch.</li> <li>Make inferences based on observations.</li> </ul>	<ul style="list-style-type: none"> <li>Student worksheets</li> <li>Teacher observation checklist</li> </ul>	PS 6., 7., 8
Electromagnets	2 lessons	<ul style="list-style-type: none"> <li>Electric current can create a magnet. Magnets can create electric current.</li> <li>The strength of an electromagnet depends on several variables.</li> </ul>	<ul style="list-style-type: none"> <li>Predict, observe, describe and record results of experiments.</li> <li>Draw conclusions from the results of experiments.</li> </ul>	<ul style="list-style-type: none"> <li>Student worksheets</li> <li>Quiz</li> </ul>	PS 5., 6., 8.
Electrical energy	4 lessons	<ul style="list-style-type: none"> <li>Electricity can produce light, heat, sound, motion and magnetic fields.</li> </ul>	<ul style="list-style-type: none"> <li>Create a device to transform energy from one form to another.</li> </ul>	<ul style="list-style-type: none"> <li>Performance task rubric</li> </ul>	PS 4., 5., 6., 7., 8 T/E 1.1, 1.2