

Content Area: Science

Strand: Properties and Principles of Matter and Energy	Missouri GLE:
Reporting Topic: Forms of Energy—Electrical Circuits	8.1.B
Grade: 4	

Score 4.0	<p>In addition to Score 3.0, in-depth inferences or applications that go beyond what was taught. For example, the student may:</p> <ul style="list-style-type: none"> • Construct new knowledge or understanding of electrical circuits. • Take a position on whether or not technology is more harmful or helpful.
	3.5 In addition to 3.0 performance, in-depth inferences and applications with partial success.
Score 3.0	<p>The student will:</p> <ul style="list-style-type: none"> • Construct and diagram a complete electric circuit by using a source (e.g. battery), means of transfer (e.g. wires), receiver (e.g. fans, resistance bulbs, motors), and observe the evidence of energy transfer in a closed series circuit (e.g. lit bulb, moving motor, fan). • Classify materials as conductors or insulators of electricity when placed within a circuit (e.g. lit bulb, moving motor, fan). • Classify materials as conductors or insulators of electricity when placed within a circuit (e.g. wood, pencil lead, plastic, glass, aluminum foil, lemon juice, air water). • Describe how new technologies have helped scientists make better observations and measurements for investigations (telescopes, magnifiers, balances, microscopes). <p>The student exhibits no major errors or gaps in the learning goal (complex ideas and processes).</p>
	2.5 No major errors or gaps in 2.0 content and partial knowledge of 3.0 content.
Score 2.0	<p>The student will:</p> <ul style="list-style-type: none"> • Identify components of a complete electric circuit as source, means of transfer and receiver. • Identify materials as conductors or insulators. • Recognize or recall specific terminology: source, transfer, receiver, conductors, circuit, insulators, static electricity. • Identify the new technologies that have helped scientists make better observations and measurements for investigations. <p>The student exhibits no major errors or gaps in the simpler details and processes.</p>
	1.5 Partial understanding of the 2.0 content with major errors or gaps in 3.0 content.
Score 1.0	With help, a partial understanding of the 2.0 content and some of the 3.0 content.
	0.5 With help, a partial understand of the 2.0 content and none of the 3.0 content.
Score 0.0	Even with help, no understanding or skill demonstrated.