

Year 6: Electricity Knowledge Mat

Subject Specific Vocabulary		Circuit Symbols	Important Knowledge																				
circuit	A complete path that an electric current can flow around. It flows from the battery, through wires and devices before returning to the battery. If the circuit is not complete the electric current cannot flow.	<table><tr><td>cell</td><td></td></tr><tr><td>battery</td><td></td></tr><tr><td>wire</td><td></td></tr><tr><td>bulb</td><td></td></tr><tr><td>buzzer</td><td></td></tr><tr><td>motor</td><td></td></tr><tr><td>switch</td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table> <p>Adding bulbs to a circuit will make each bulb dimmer</p> <div></div>	cell		battery		wire		bulb		buzzer		motor		switch								<ul style="list-style-type: none">❑ I know how changing the voltage of cells in a circuit affects the brightness of a lamp.❑ I know how changing the voltage of cells in a circuit affects the loudness of a buzzer.❑ I know how parts of a circuit function.❑ I can draw a diagram of a circuit and use symbols to represent: cells, wires, lamps/bulbs, buzzers, switches and motors. <p>Working Scientifically</p> <ul style="list-style-type: none">❑ I can ask a testable question which includes the change and measure variables.❑ I can describe how the evidence I have collected supports or refutes my idea.❑ I can make a prediction and explain my reasons using scientific knowledge.❑ I can use more than one piece of evidence when forming a conclusion.❑ I can describe how to improve planning to produce better results.❑ I can suggest reasons for anomalies.❑ I can select and plan the most appropriate type of scientific enquiry to use to answer scientific questions.
cell																							
battery																							
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motor																							
switch																							
circuit symbol	A symbol used to represent various electronic components or functions in a diagram of a circuit.																						
circuit diagram	A visual representation of an electrical circuit using symbols to represent the electrical components.																						
current	A stream of charged particles, moving through an electrical conductor or space.																						
voltage	Voltage measures the energy that is transferred to a device in a circuit. It is measured in Volts. Mains electricity carries a voltage of 210-240 volts. A typical cell in school has 1.5 volts.																						
anomaly	A result that is not normal or is unexpected.																						
analyse	To examine something methodically and in detail, in order to explain and it.																						
interval	A period between 2 events or times.																						
hypothesis	An idea for something that has not yet been proved.																						
refute	To say that a person, statement or idea is wrong.																						