

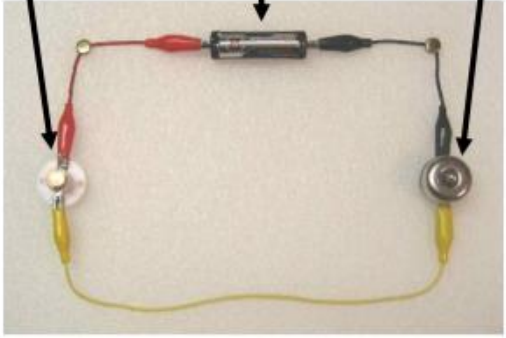


Year 4: Electricity Knowledge Mat

Subject Specific Vocabulary		Conductors and Insulators	Important Knowledge
electricity	A form of energy used for lighting, heating, making sound and making machines work.	<div> <p>Conductors Some materials let electricity pass through them easily. These are known as electrical conductors. Many metals are good electrical conductors, such as iron, copper and steel.</p>  <p>Insulators Some materials do not allow electricity to pass through them. They are known as insulators. Plastic, wood, rubber and glass are good electrical insulators.</p>  </div> <div> <p>Bulb Cell Switch</p>  </div>	<input type="checkbox"/> I can name common appliances that run on electricity.
electrical circuit	A cell or battery connected to a component using wires. It needs to be a complete circuit to work.		<input type="checkbox"/> I know whether or not a lamp will light in a simple series circuit.
cell	A cell is a single unit of energy.		<input type="checkbox"/> I know how to construct a simple series electrical circuit, identifying and naming its basic parts: cells, wires, bulbs, switches and buzzers.
battery	A battery is a collection of cells.		<input type="checkbox"/> I know that a switch opens and closes a circuit.
switch	Can be added to a circuit to turn a component on or off. It allows the electricity to flow or it stops it.		<input type="checkbox"/> I know some common conductors and insulators.
conductor	Material that allows electricity to pass through.		<input type="checkbox"/> I know that metals are good conductors.
insulator	Material that does not allow electricity to pass through.		
electrical appliance	A machine or device that runs on electricity.		
motor	A device that uses electricity or fuel to produce movement.		
electrical component	A part that combines with others to form a circuit. E.g. bulb, motor, buzzer		