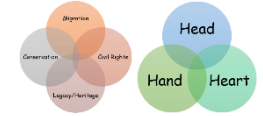
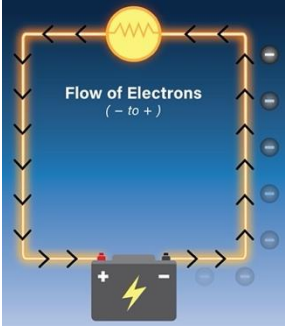
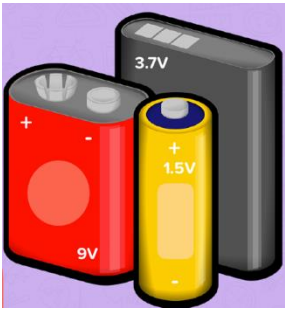
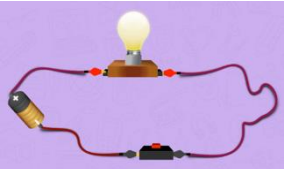
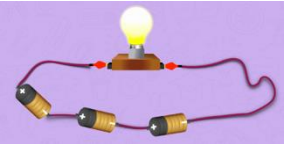

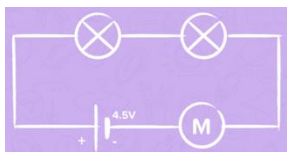

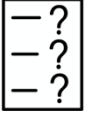









# Year 6 – Summer 1 – Science – Pupil Knowledge Organiser



What do I already know?		What am I learning now?	
<ul style="list-style-type: none"> <li>Electricity is a form of energy used to power appliances/devices.</li> <li>Mains electricity is electricity that is generated in a power station.</li> <li>A battery is an object used to store electricity.</li> <li>A circuit is a path that allows electricity to flow through it.</li> <li>A complete circuit allows electricity to flow and give energy to the output.</li> <li>A switch is a device used to control the flow of electricity in a circuit.</li> </ul>		<ol style="list-style-type: none"> <li>What is electricity? (Greater Depth)</li> <li>What is voltage, and how does a cell provide it?</li> <li>How do we draw circuits using scientific symbols?</li> <li>How does the number and voltage of cells affect the brightness of a lamp?</li> <li>Can we predict how components' might be affected by changes in voltage?</li> <li>Assessment Week</li> </ol>	
Key Knowledge: Electricity		Key Skills: Working Scientifically	Key Vocabulary
 <p>Flow of Electrons (- to +)</p> <p>The flow of electrons creates an electric current.</p>  <p>Cells provide voltage in a circuit.</p> <p>The number of cells in a circuit affects the overall voltage.</p> <p>Voltage is measured in volts (V).</p>  <p>The brightness of a bulb in a circuit is influenced by the number and voltage of cells.</p>  <p>Increasing the number of cells generally increases the brightness.</p> <p>Scientific symbols represent electrical components in circuit diagrams.</p>  <p>Common symbols include a circle for a cell, lines for wires, and specific symbols for bulbs, switches, etc.</p>  <p>Circuits can be accurately represented on paper using these symbols.</p> <p>Drawing circuits with symbols simplifies communication and understanding.</p>		 <p>Ask Questions</p>  <p>Enquiry</p>  <p>Observe</p>  <p>Record/ Present</p>  <p>Conclusions</p>  <p>Evaluation</p>  <p>Communicate</p>	<p>electron</p> <p>A tiny particle that carries electricity through a circuit.</p> <p>electric current</p> <p>The flow of electricity through a circuit.</p> <p>component</p> <p>A part of a circuit, like a bulb, motor, or switch.</p> <p>cell</p> <p>A power source that pushes electricity around a circuit.</p> <p>battery</p> <p>Two or more cells joined together to give more power.</p> <p>voltage</p> <p>The push that moves electricity through a circuit.</p> <p>wire</p> <p>A conductive metal strand that electricity flows through.</p> <p>bulb</p> <p>A component that lights up when electricity flows through it.</p> <p>buzzer</p> <p>A component that makes a sound when electricity flows through it.</p> <p>scientific symbol</p> <p>A simple drawing used to show a component in a diagram.</p>