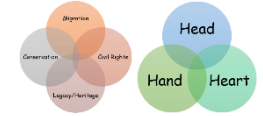




Year 4 – Summer 1 – Science – Pupil Knowledge Organiser



What do I already know?			What am I learning now?		
<ul style="list-style-type: none"> Objects are made from everyday materials. Each material has special properties that makes them good for different purposes. Materials might be hard/soft, stretch/stiff, shiny/dull. Materials might be rough/smooth, waterproof/absorbent, opaque/transparent. 			<ol style="list-style-type: none"> What do we use electricity for? What is a circuit? What is a complete circuit? What are conductors and insulators? Can we test materials to see if they are conductors or insulators? Assessment Week 		
Key Knowledge: Electricity			Key Skills: Working Scientifically		Key Vocabulary
<p>We use electricity for many things.</p>	<p>A cell is an object that turns chemical energy into electrical energy.</p> <p>A battery is a group cells.</p>	<p>Open/off switches leave a gap in the circuit, making it incomplete/open.</p>	<p>Ask Questions</p>	<p>electricity</p> <p>mains electricity</p> <p>battery</p> <p>circuit</p> <p>component</p> <p>switch</p> <p>conductor</p> <p>insulator</p>	<p>A form of energy used to power appliances/devices.</p> <p>Electricity that is generated in a power station.</p> <p>An object used to store electricity.</p> <p>A path that allows electricity to flow through it.</p> <p>A part of an electrical circuit.</p> <p>A device used to control the flow of electricity in a circuit.</p> <p>A material that allows electricity to pass through it.</p> <p>A material that does not allow electricity to pass through it.</p>
<p>Electrical appliances are plugged into a socket to access mains electricity.</p> <p>Smaller appliances might need batteries to function.</p>	<p>A complete circuit allows electricity to flow and give energy to the output.</p>	<p>Closed/on switches do not leave a gap in the circuit, making it complete/closed.</p>	<p>Conclusions</p>		
<p>Circuits consist of components like cells (batteries), wires, switches and an output (e.g. bulb, motor, buzzer).</p>	<p>An incomplete circuit will not allow electricity to flow, because there is a gap somewhere.</p>	<p>Conducting materials are used when we need electricity to flow through objects.</p> <p>Insulating materials cover conducting materials to make them safe to handle.</p>	<p>Enquiry</p>	<p>Evaluation</p>	
			<p>Observe</p>	<p>Communicate</p>	
			<p>Record/ Present</p>		