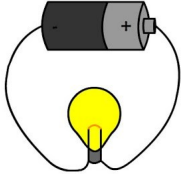
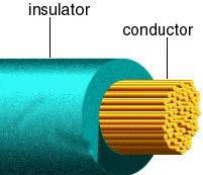





# Upperby Primary School - SCIENCE Knowledge Organiser

## YEAR 3 & 4 ELECTRICITY (Autumn 1st)

Key Questions			Vocabulary	
<b>How do I make a series circuit?</b>	Connect a battery, wires and a component (like a bulb) in a loop. Electricity will flow around the loop and power the component.		<b>Electricity</b>	A form of energy that can be used to power appliances.
<b>What are insulators and conductors?</b>	Conductors are materials that allow electricity to flow through them (like wires). Insulators are materials that stop electricity from flowing through them (like plastic covering).		<b>Appliance</b>	A device that runs off electricity.
<b>What is a switch?</b>	A device that breaks or completes an electrical circuit. This allows the electricity to be turned on or off.		<b>Conductors</b>	Materials that allows electricity to flow through them.
			<b>Insulators</b>	Materials that do not allow electricity to flow through.
			<b>Mains power</b>	Electricity that comes from a power station into buildings.
			<b>Battery</b>	A portable device that produces electrical power.
			<b>Circuit</b>	A system of wires and components which lets electricity flow.
			<b>Series circuit</b>	An electrical loop with everything connected in one loop.
			<b>Switch</b>	A device that turns electrical circuits on or off.
			<b>Electrical component</b>	Bulbs, motors, buzzers turn electricity into something else (light, sound, movement).
<b>End of unit task</b>	<b>What will I know at the end of the unit?</b>			
I will create a working series circuit with a component, draw, write or explain why it works.	<ul style="list-style-type: none"> <li>• How to make a simple series circuit with a switch.</li> <li>• What is an insulator and a conductor and why they're important in a circuit.</li> <li>• Recognise whether a circuit will work or not and why.</li> <li>• How to keep myself safe from electrical dangers.</li> </ul>			