

# Lunt's Heath Primary School - Knowledge Organiser

Science Focus

Electricity

Year 6

Term Summer 1

What? (Key Knowledge)	
Electricity	
What is Electricity?	<ul style="list-style-type: none"> <li>-Electricity is created by generators which can be powered by gas, coal, oil, and wind or solar.</li> <li>-The electrical energy can be converted into other types of energy such as light, heat, movement or sound.</li> <li>-Electricity is dangerous, so be careful when using electrical appliances.</li> </ul>
Subheading	
A series circuit (One pathway around the circuit)	<ul style="list-style-type: none"> <li>-Electricity can flow through the components in a complete electrical circuit.</li> <li>-A circuit always needs a power source, such as a battery, with wires connected to both the positive (+) and negative (-) ends. (A battery is made from a collection of cells connected together).</li> <li>-A circuit can also contain other electrical components, such as bulbs, buzzers or motors, which allow electricity to pass through.</li> <li>-Electricity will only travel around a circuit that is complete. That means it has no gaps.</li> </ul>
What is a switch?	<ul style="list-style-type: none"> <li>-You can use a switch in a circuit to create a gap in a circuit. This can be used to switch it on and off.</li> <li>-When a switch is open (off), there is a gap in the circuit. Electricity cannot travel around the circuit.</li> <li>-When a switch is closed (on), it makes the circuit complete. Electricity can travel around the circuit.</li> </ul>
Increasing the brightness of a bulb or the volume of a buzzer.	<ul style="list-style-type: none"> <li>-The more cells that are used in a circuit, the brighter the bulb or louder the buzzer.</li> <li>-If one cell is used, the higher its voltage, the more powerful the cell is.</li> </ul>
Possible Experiences	
<ul style="list-style-type: none"> <li>-Design and make a set of traffic lights or burglar alarm.</li> <li>-Identify the effects of changing a component in a circuit.</li> </ul>	

What? (Key Vocabulary)	
Spelling	Definition/ Sentence
Generator	A machine that make electrical energy.
Component	A part of something; (a part of a circuit).
Voltage	Voltage is a measure of the difference in electrical energy between two parts of a circuit.
Circuit	A path that an electrical current can flow around.
Cell/Battery	A device that stores energy as a chemical until it is needed. A cell is a single unit. A battery is a collection of cells.
Current	The flow of electrons, measured in amps.
Amps	How electric current is measured
Resistance	The difficulty that the electric current has when flowing around a circuit.
Electrons	Very, small particles that travel around an electrical circuit.
Diagrams and Symbols	

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