



London Colney Primary and Nursery School – Knowledge Organiser

Name of Topic Electricity

Year Group 5

Key Vocabulary and Spellings

1	circuit	A collection of items that when joined allow electricity to pass through.
2	insulator	An object that stops the flow of electricity
3	conductor	An object that allows the flow of electricity.
4	appliance	An object that uses electricity
5	component	A part of a circuit
6	battery	A source of power
7	buzzer	A source of sound
8	bulb	A source of light
9	wires	An object that connects the components of a circuit.
10	switch	A component to control power.

	<p>Will the bulb light?</p> <p>Yes</p> <p>Why?</p> <p>The circuit has a battery and a bulb and is complete.</p>
	<p>Will the bulb light?</p> <p>No</p> <p>Why?</p> <p>The circuit has no battery to provide the electrical power.</p>
	<p>Will the bulb light?</p> <p>No</p> <p>Why?</p> <p>The circuit is not complete.</p>
	<p>Will the bulb light?</p> <p>No</p> <p>Why?</p> <p>The switch is in the off (0) position.</p>

Key Questions of Enquiry

1	Create a simple circuit using an open ended investigation.
2	Explore adding / removing conductors and insulators.
3	Create an appliance

Top 5 Topic Facts

1	Electricity is created by generators which can be powered by gas, oil, wind, coal or solar.
2	Electrical energy can be converted into other types of energy such as light, movement or sound.
3	Electricity will only pass through a complete circuit and one that includes a power source e.g. cell.
4	Conductors are materials that will let electricity flow through them easily.
5	Insulators are materials that will prevent electricity from flowing through them.

Key Questions of Enquiry

1	What is electricity?
2	How does a circuit work?
3	What materials can help or prevent electricity?
4	What is electricity?