



St Paul's C of E Primary School – Knowledge Organiser

Name of Topic	Electricity	Year Group	4
---------------	-------------	------------	---

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

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 include a power source e.g. a 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.

	<p style="text-align: center;">Will the bulb light?</p> <p style="text-align: center; color: green; font-weight: bold;">Yes</p> <p style="text-align: center;">Why?</p> <p style="font-size: small;">The circuit has a battery and a bulb and is complete.</p>
	<p style="text-align: center;">Will the bulb light?</p> <p style="text-align: center; color: red; font-weight: bold;">No</p> <p style="text-align: center;">Why?</p> <p style="font-size: small;">The circuit has no battery to provide the electrical power.</p>
	<p style="text-align: center;">Will the bulb light?</p> <p style="text-align: center; color: red; font-weight: bold;">No</p> <p style="text-align: center;">Why?</p> <p style="font-size: small;">The circuit is not complete.</p>
	<p style="text-align: center;">Will the bulb light?</p> <p style="text-align: center; color: red; font-weight: bold;">No</p> <p style="text-align: center;">Why?</p> <p style="font-size: small;">The switch is in the off (0) position.</p>

Key Investigations/Questions

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