



Brookfield Primary School Knowledge Organiser

Year 4: Science – Electricity

Science is the study of the world around us through observation, description, investigation and experimentation.

Key Facts:

- A circuit contains a battery (cell), wires and a component that requires electricity to work (bulb, motor or buzzer).
- Electrical current flows through the wires from the battery (cell) to the bulb, motor or buzzer.
- A switch can break or reconnect a circuit.
- A switch controls the flow of the electrical current around the circuit. When the switch is off, the current cannot flow. This is not the same as an incomplete circuit.
- Materials that allow electricity to pass through to create a complete circuit are called electrical conductors.
- Materials that do not allow electricity to pass through and do not complete a circuit are called electrical insulators.
- A simple circuit is a loop that allows electrical current to flow through wires.

Where to look:



- BBC Bitesize
- Home
- School



Things to find out about:



What materials are electrical conductors?

What materials are electrical insulators?

General Scientific Words/Phrases:

Enquire, investigate, observe, explore, experiment, describe, record, analyse, compare, evidence, record

Key Vocabulary to use in this topic:

Word:

Definition:

Electricity

Energy that powers electrical appliances.

Batteries

Containers made of cells in which chemicals energy is converted into electricity

Bulb

The glass that contains the filament of an electric lamp

Switch

The device which builds or breaks the connection in an electrical circuit.

Current

The flow of electricity.

Circuit

A pathway that electricity flows around.

Conductor

Materials that allow electricity to flow through.

Insulator

Materials that do not let electricity flow through.

Voltage

The measure of electrical power.

Control

Manage the amount of something.

hydropower

Electricity is produced using water.

