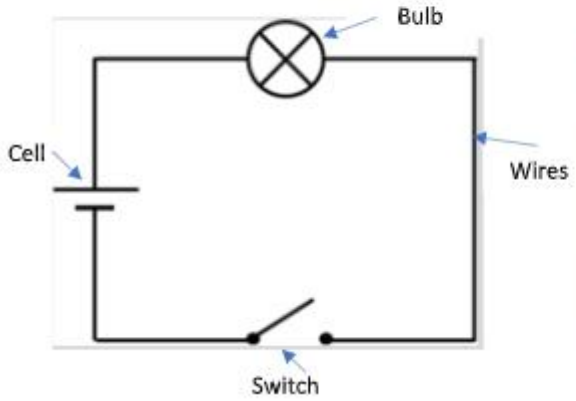
Preston Primary School Knowledge Organiser

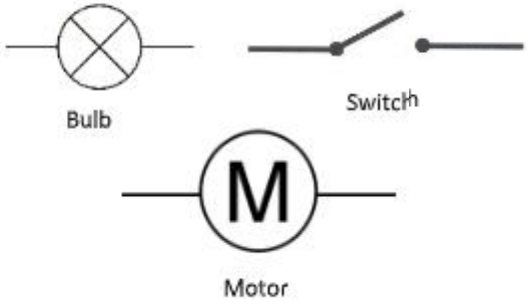
Science	Term: Autumn 2	Year: Unit 3 – Year 3 & 4	Duration: 6 Weeks

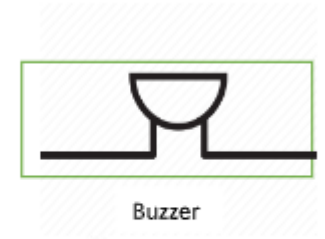
Electricity

Scientific Diagrams and Symbols









Simple Circuit



This is a simple circuit. It is a complete circuit where electrons can flow around the circuit.

Electricity can produce…



Light



Sound



Movement



Heat

The battery produces electricity. It has stored chemical energy.

The chemical energy converts to electrical energy which produces electrons. They travel around the circuit to all the components.

Circuit Components



Cell



Bulb/Lamp



Wires



Buzzer



Switch



Motor



Battery

VOCABULARY

Electricity- form of energy formed by charged particles.
Circuit- a complete flow of electricity and the way it affects objects.
Bulb- provides light when powered.
Mains- domestic or wall powered.
Plug- device for making an electrical connection
Buzzer- An electrical device that makes a buzzing sound.
Wire- A long piece of metal that carries an electrical current often covered in plastic for safety.
Motor- A device that changes electrical energy into movement.
Cell- a device used to generate electricity.
Battery- More than one cell/
Conductor- Any material that electricity can pass through or along.
Insulator- Any material that electricity cannot pass through or along.
Symbol- Representation of the components.
Electrons- move around a circuit.
Current- stream of charged particles moving though an electrical conductor.
Voltage- An electrical force that makes electricity move through a wire, measured in volts (V)