

Electricity

Key Vocabulary

Sticky Knowledge

SCIENCE



Vocabulary	Definition
Battery	A source of voltage that provides power to a circuit.
Cell	A single unit that generates electricity. Multiple cells can be arranged to form a battery.
Component	A part of a circuit.
Electricity	A form of energy that can light bulbs, make sounds or power devices.
Lamp	A light bulb that converts electrical energy into light.
Motor	Converts electrical energy into motion.
Resistor	Limits the current flowing through the circuit.
Switch	Opens and closes the circuit, controlling the flow of electricity.
Wire	Connects the components of the circuit.

What is Electricity?

Electricity is a form of energy that makes things work. Electrical appliances with cords and plugs are powered from the mains power supply. Cordless and portable devices are powered by electrical energy stored in cells or batteries.

What is a circuit diagram?

A circuit diagram is a simple way to show a complete path through which electricity flows. Battery - A source of voltage that provides power to the circuit.

They include these symbols:

Cell - A single unit that generates electricity. Multiple cells can be arranged to form a battery. = One long line and one short line or several connected in a series.

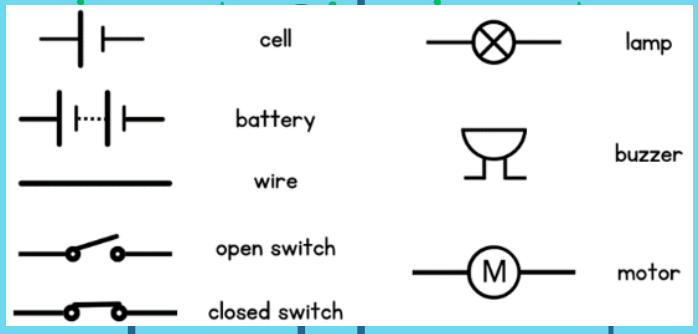
Switch - Opens and closes the circuit, controlling the flow of electricity = A break in the line with a small line representing the switch lever.

Lamp - A light bulb that converts electrical energy into light = A circle with a cross inside.

Motor - Converts electrical energy into motion = A circle with a "M" inside.

Resistor - Limits the current flowing through the circuit = A zigzag line.

Wire - Connects the components of the circuit = A straight line.



What are components?

All electrical items are made up of components, which make them work. Components have different jobs. For example, a cell provides electrical power, a buzzer creates a sound, a switch makes or breaks a circuit and a motor creates movement.

