States of Being
Scientist

What I already know

A simple series circuit

cell

light bulb

switch

wires

Closing the switch completes the circuit and electricity will flow.

electrical conductors VS electrical insulators

Allows energy to move

Steel

silver   gold

salty water   copper

stops energy moving

wood

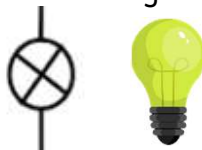glass   rubber

plastic   oil

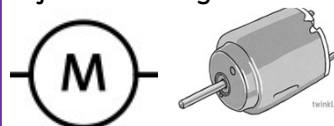**Cell** – also called a **battery**. Gives electrical power to the circuit

BATTERY
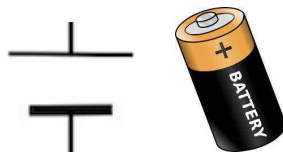
switch – allows us to control the circuit. If it is closed the electricity will flow. If it is open the electricity will stop.
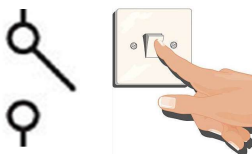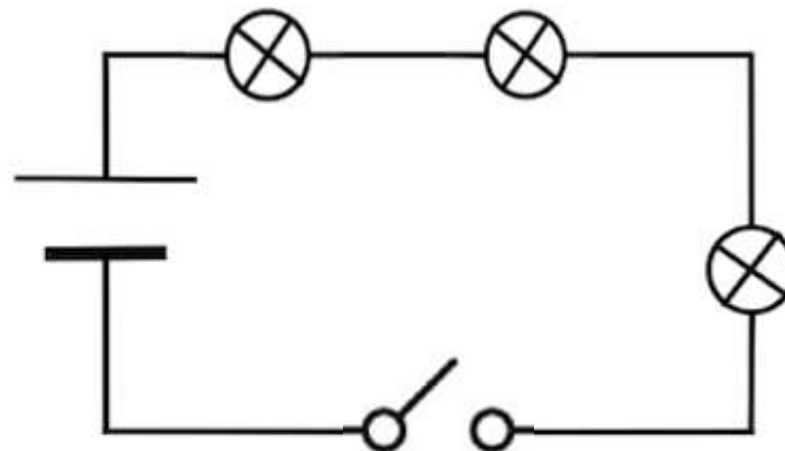
bulb – it creates light when electricity flows through it.

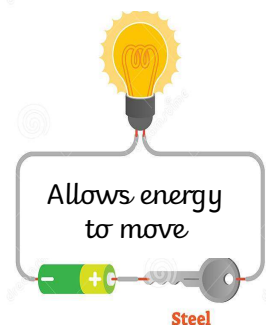**motor** – It moves when electricity flows through it.
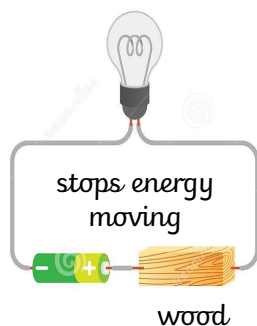
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What I will learn in this enquiry

The brightness of the bulb (or the loudness of a buzzer) will change depending on **how many bulbs** (or **buzzers**) or **cells** are in the circuit.

cell   wire   bulb   buzzer

motor   switch (off)   switch (on)

Circuit diagrams use these symbols to avoid confusion