



IVINGTON CE PRIMARY AND PRE-SCHOOL KNOWLEDGE ORGANISER

Reaching together... stand firm in your faith, be courageous and strong - 1 Corinthians 16:13

SUBJECT: Science

YEAR: B

TERM: Autumn 1/Spring 1

YEAR GROUP: 6

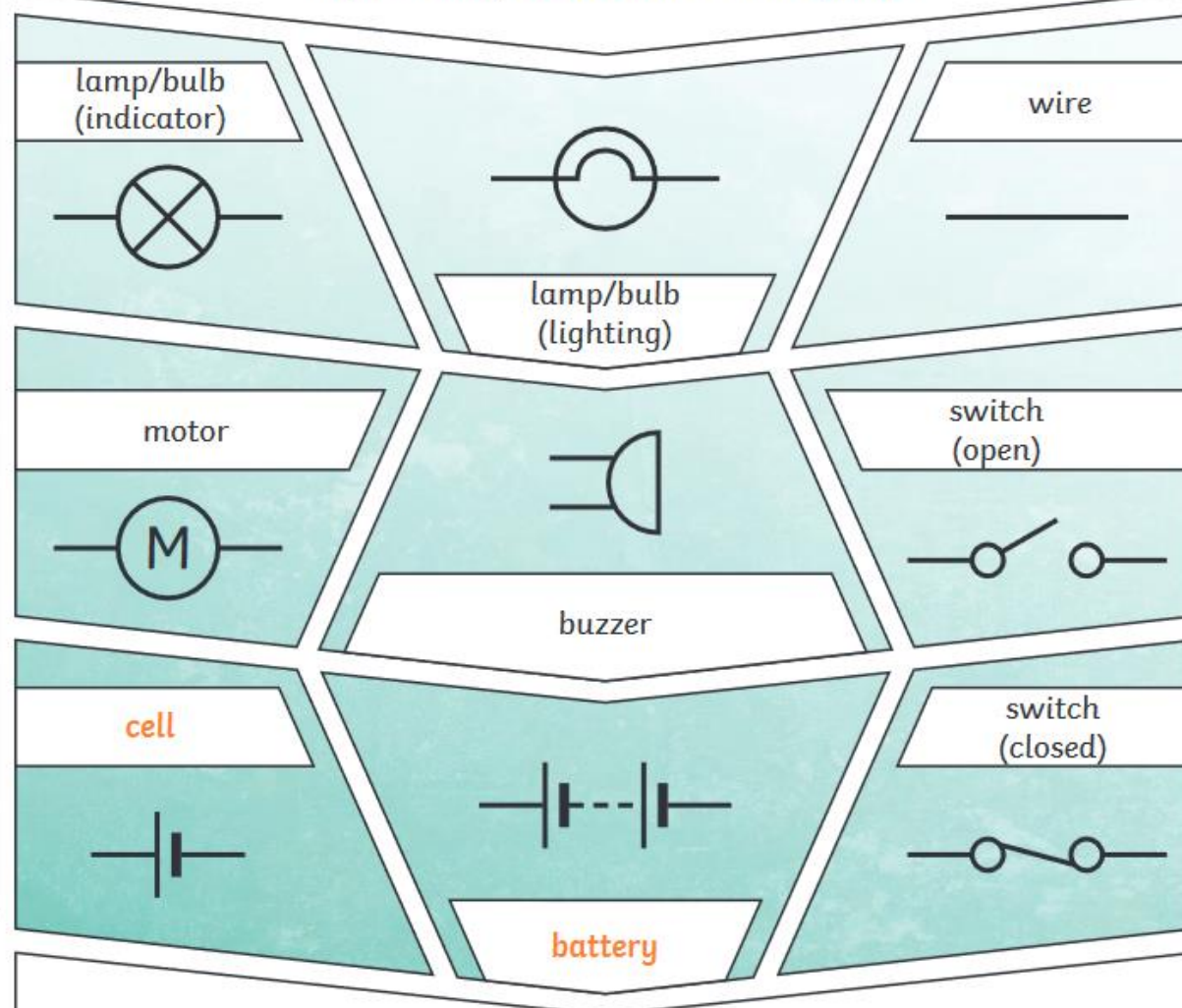
ELECTRICITY

Key Vocabulary

circuit	A path that an electrical current can flow around.
symbol	A visual picture that stands for something else.
cell/battery	A device that stores chemical energy until it is needed. A cell is a single unit. A battery is a collection of cells .
current	The flow of electrons , measured in amps .
amps	How electric current is measured.
voltage	The force that makes the electric current move through the wires. The greater the voltage , the more current will flow.
resistance	The difficulty that the electric current has when flowing around a circuit .
electrons	Very small particles that travel around an electrical circuit .

Key Knowledge

Components of a **Circuit** and Their **Symbols**



These **symbols** can be used to create electrical **circuit** diagrams.



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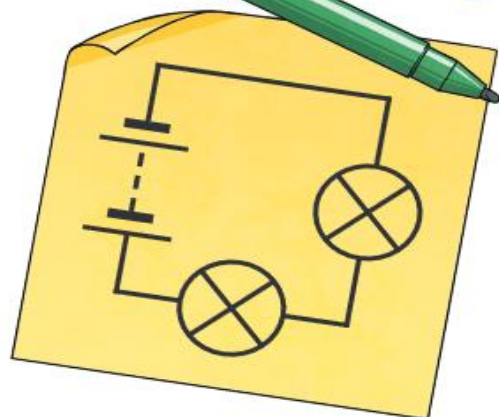
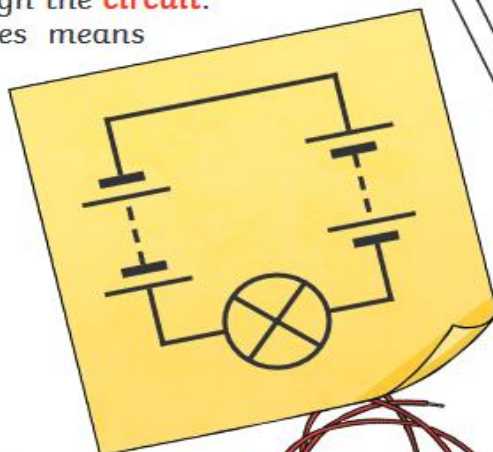
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ELECTRICITY

Key Knowledge

What will make a bulb brighter or a buzzer louder?

- More **batteries** or a higher **voltage** create more power to flow through the **circuit**.
- Shortening the wires means the **electrons** have less **resistance** to flow through.



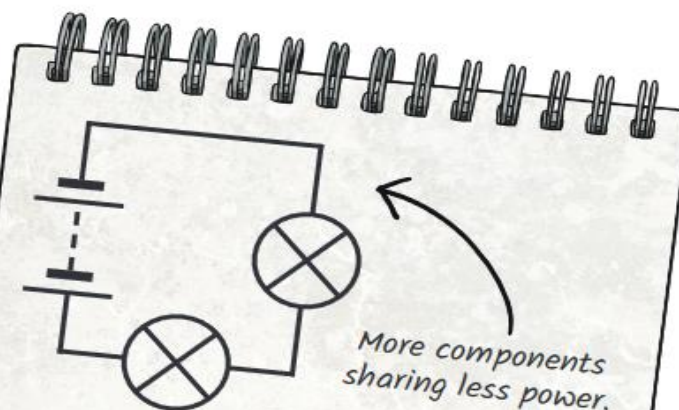
What will make a bulb dimmer or a buzzer quieter?

- Fewer **batteries** or a lower **voltage** give less power to the **circuit**.
- More buzzers or bulbs mean the power is shared by more components.
- Lengthening the wires means the **electrons** have to travel through more **resistance**.



Series Circuit

A **circuit** that has only one route for the **current** to take. If more bulbs or buzzers are added, the power has to be shared and so they will be dimmer or quieter. If just one part of this series **circuit** breaks, the **circuit** is broken and the flow of **current** stops.



A broken **circuit** with no electrical **current**.

