

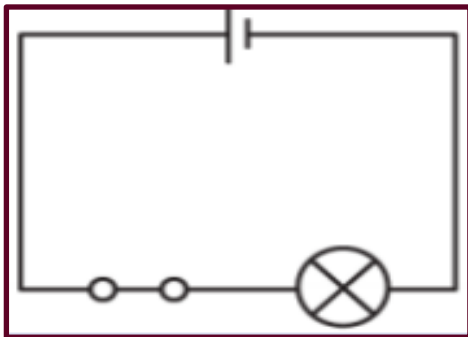


Y6 Science - Circuits

Simple Series Circuits

- In order for electricity to flow, a circuit needs three things: A source of electricity; no gaps in the circuit and conductors.
- A series circuit has only one route for the current to take. If more bulbs or buzzers are added, the power has to be shared and therefore they will be dimmer or quieter.
- If just one part of a series circuit breaks, the circuit is broken and the flow of current stops.

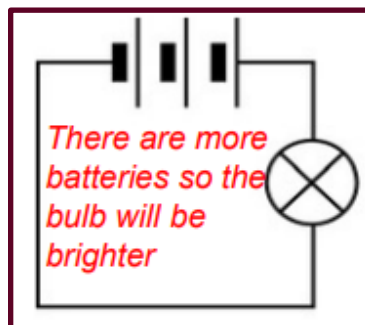
A Simple Circuit Diagram



What will make a bulb brighter?

- More batteries or a higher voltage create more power to the circuit.
- This makes the bulbs glow brighter.

Circuit Symbols	
Bulb	
Wire	
Ammeter	
Motor	
Voltmeter	
Buzzer	
Open Switch	
Closed Switch	
Cell	
Battery	



Vocabulary

Circuit	A complete path that an electric current can flow around.
Symbol	A visual picture that stands for something.
Circuit diagram	A visual representation of an electrical circuit
Cell / Battery	A device that stores energy as a chemical until it is needed. A cell is a single unit. A battery is a collection of cells.
Switch	An electrical component that can make or break an electrical circuit
Voltage	The force that makes electricity move through a wire.
Bulb	A glass bulb which provides light by passing an electrical current through a filament.
Buzzer	An electrical device that makes a buzzing noise and is used for signalling (for example, in an alarm)
Current	A flow of electricity, measured in amps
Motor	A machine that produces motion or power for doing work.