

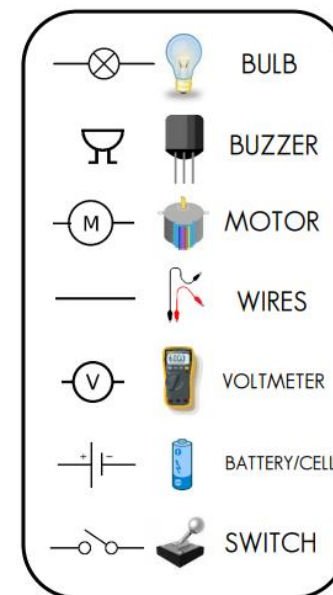
Highgate Community Primary School – Year 6 Changing Circuits

Vocabulary

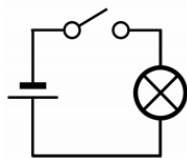
cell	An electrical cell (or battery) is a device that is used to generate electricity.
circuit	An electrical circuit is a complete route which an electric current can flow around.
component	The components of a circuit are the parts that make it up, e.g. a bulb or cell.
current	An electric current is a flow of electricity through a wire or circuit.
resistance	Resistance is the ability of a substance or an electrical circuit to stop the flow of an electrical current through it.
voltage	The voltage of an electrical current is its force measured in volts.



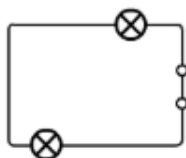
Electrical Symbols



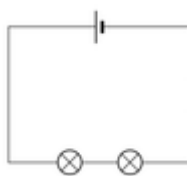
Why won't the bulb light?



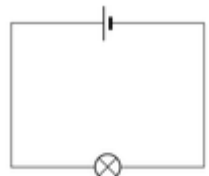
The switch is open



The power source is missing



The circuit is not complete



A component could be broken

Key Knowledge

- If you add more bulbs to a circuit, the bulbs get dimmer. This is because there is more resistance.
- If you add more cells to a circuit, the bulbs will get brighter. This is because there is less resistance and a greater current.
- If you make the wires long, the bulb will get dimmer. This is because there is more resistance.
- The brightness of a bulb is associated with its voltage.
- The strength of a cell is associated with its voltage.

