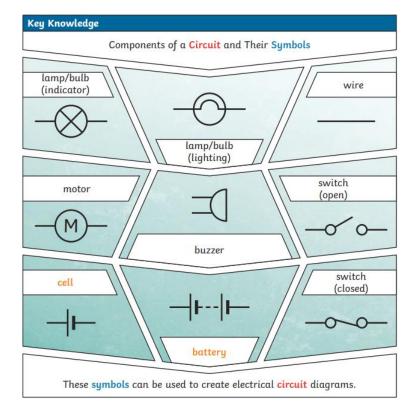
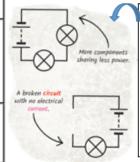
Key Vocabulary	
circuit	A path that an electrical current can flow around.
symbol	A visual picture that stands for something else.
cell/battery	A device that stores chemical energy until it is needed. A cell is a single unit. A battery is a collection of cells.
current	The flow of electrons, measured 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.



Are we poles apart?





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

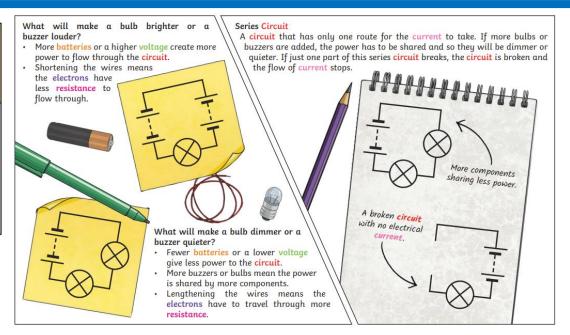


What will make a bulb brighter or a buzzer louder? More batteries or a higher voltage create more power to flow through the circuit. Shortening the wires means the electrons have less resistance to flow through.



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

Electrical Conductors	Electrical Insulators
-electricity can pass	-do not let electricity pass
through easily	through
-Copper	-Rubber
-Iron	-Wood
-Steel	-Plastic
-Silver	-Paper
-Gold	



Facts

We use scientific symbols to represent the components (parts) of a circuit.

The brightness of a bulb or the loudness of a buzzer is affected by the number of cells in a circuit.

The brightness of a bulb or the loudness of a buzzer is affected by the voltage of cells in a circuit.

The number of components in a circuit can affect how they function.

The arrangement of components in a circuit can affect how they function.

The length of wires in a circuit can affect how the components function.

