

Electricity

Physics

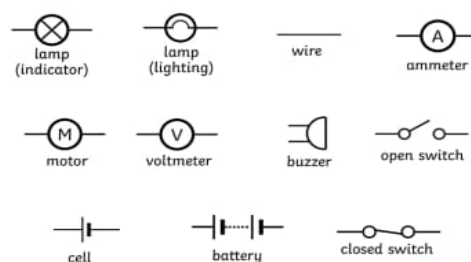
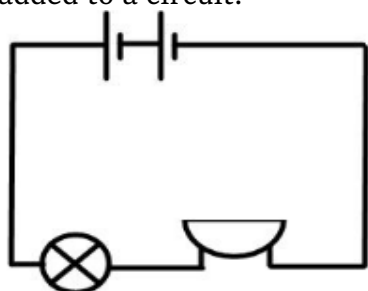


What should I already know?

I know appliances that run off electricity.
I can construct simple electrical circuits and name the components used.

Diagrams

The bulb may glow less brightly if a buzzer is added to a circuit. Circuits can be represented in diagrams, using recognised symbols.



Vocabulary



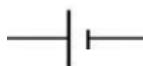
Series circuit

A circuit in which the current flows along one path.



Cell

Has a positive and negative end and pushes the current around a circuit.



Battery

Two or more cells put together which push the current around a circuit.



Lamp

The technical name for a light bulb.



Bulb

A component which produces light.



Buzzer

A component which produces a sound.



Motor

A component which produces rotating movement.



Voltage

The pressure that pushes the current around a circuit measure in volts.



Switch

A device for making or breaking a connection in a circuit.



Quick Facts

The brightness of a lamp/bulb or the volume of a buzzer can be affected by the number of cells used and by the voltage of these cells.



When components such as bulbs, buzzers and motors are put into a circuit together, they can function differently. When a bulb and a buzzer are placed in a circuit, the functioning of the components is affected. If the positions of the bulb and buzzer are changed, the effect on the components should change. If more cells are added, this problem may be overcome.

A switch controls the flow of current around a circuit.

When switches are introduced, components may function differently.

If the switch is moved, this may affect how the components function.

Circuits can be represented in diagrams, using recognised symbols.

These diagrams need to be drawn accurately with lines that must join to the symbols for the components so that they show a circuit that will work.

Working Scientifically



Questioning, Planning and Enquiring



Investigating



Observing and Recording



Concluding and Evaluating