

It's Electrifying!

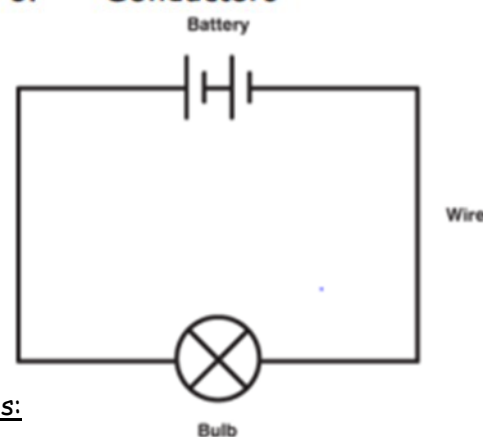
Vocabulary:

circuit	a closed loop for electricity to travel around
component	a part used in an electrical circuit
electricity	a form of energy caused by electrons moving
cell (battery)	a stored source of electricity
switch	a switch turns an electrical circuit on or off by completing or breaking the circuit
conductor	an object that allows electricity to flow through it easily (objects made of metal are good conductors)
insulator	an object that does not allow electricity to flow through it easily
voltage	a force that makes electricity flow through a wire
motor	a machine that turns electrical energy into movement

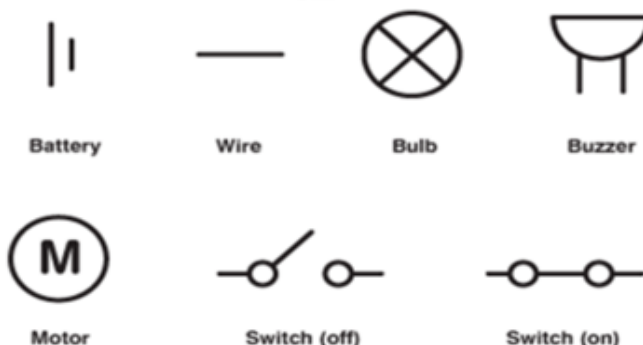
Did you know...?

In order for electricity to flow, a circuit needs three things:

1. A source of electricity
2. No gaps in the circuit
3. Conductors



Symbols:



Key Questions:

- ⇒ Can I explain how major discoveries affected our understanding and use of electricity?
- ⇒ Can I draw circuit diagrams using scientific symbols and indicate the voltage?
- ⇒ Can I explain the effect of increasing or decreasing the voltage on different parts of a circuit?
- ⇒ Can I plan, conduct and report findings (including a conclusion) on a scientific enquiry based question?
- ⇒ Can I record data and results using scientific diagrams and labels?

By changing the components in a circuit we can vary:



The brightness of a bulb
(brighter / dimmer)



The volume of a buzzer
(louder / quieter)