

How does electricity work?

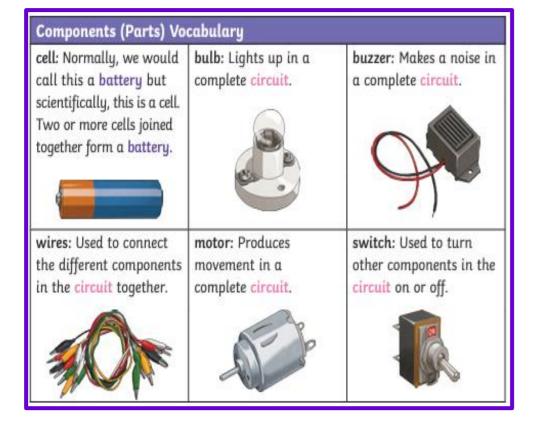
Summer 5

Y3/4

Skills and knowledge

Questions

- What uses electricity?
- How can I make a bulb light up?
- What are parts of an electrical circuit called?
- What conducts well and what insulates well?
- How can I design and make a product with an electrical circuit?



Interesting facts



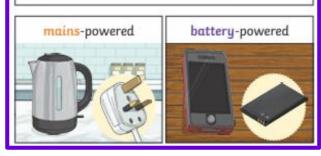
Electrical energy is made in power stations.



Electricity is sent on wires.

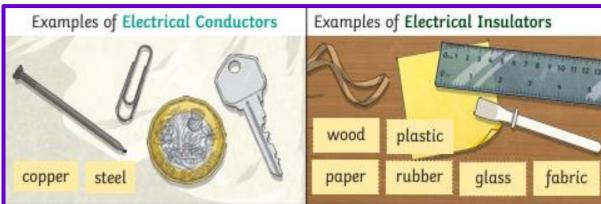
Appliances

Many everyday appliances rely on electricity for them to work. Some appliances use mains electricity (are plugged into a socket) and others have a battery to make them work. Examples of mains-powered appliances include toasters and televisions. Battery-powered appliances can include mobile phones and torches.



Key Vocabulary

	Word	Definition
1	electricity	The flow of an electrical current through a material.
2	battery	A device that stores electrical energy. Two cells joined together is a battery.
3	circuit	A pathway that electricity can flow around, It is based on wires and a power supply.
4	appliances	A piece of equipment or device used to perform a particular job such as a washing machine.
5	electrical conductor	A material that will allow electricity to flow through it.
6	electrical insulator	A material that does not allow electricity to flow through it.



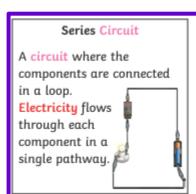


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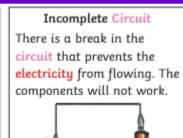








Electricity can flow. The components will work.



Switches can be used to open or close a circuit. When off, a switch 'breaks' the circuit to stop the flow of electricity. When on, a switch 'completes' the circuit and allows the electricity to flow.



push button switch



