Science • Electricity



Crucial Knowledge

- Many household devices and appliances run on electricity.
- Sources of electricity for appliances are mains, battery, solar, wind.
- Electrical current can flow if there is a complete circuit.
- A switch functions by completing or breaking a complete circuit.
- Conductors allow electricity to pass through.
- Insulators do not allow electricity to pass through them.



Key Vocabulary





electric appliance: Any piece of equipment that uses electricity



circuit: a closed path that electricity can flow round.

component: one of the parts of an electrical circuit mains: electricity supplied to a building through wires



crocodile clip: a metal clip with long jaws that can attach wires and circuit components together



battery cell: A safe power source. A store of chemical potential energy that can power a circuit.





motor: A component that turns when electricity flows through it.



loose connection: when part of a circuit is not joined up securely.



conductor: A material which allows electricity to flow through it.

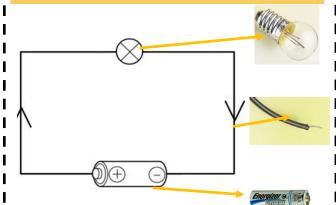


electrical insulator: A material which does not allow electricity to flow through it.



Diagrams / Images

Complete Circuit Diagram



5 Electrical Conductors







steel



sea water

silver

gold

ld copper

5 Electrical Insulators











rubber

glass

oil

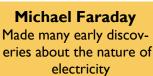
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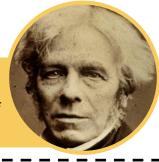
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Important People



James West invented the microphone that is in the phone.





We Are Building Our Knowledge From Materials (Y2)

This will help when we learn about Electricity (Y6)