# Science • Electricity



# Crucial Knowledge

- A source of electricity (mains or battery) is needed for electrical devices to work.
- Electricity sources push electricity round a circuit.
- More batteries will push the electricity round the circuit faster.
- Devices work harder when more electricity goes through them.
- A complete circuit is needed for electricity to flow and devices to work.
- Some materials allow electricity to flow easily and these are called conductors.
- Materials that don't allow electricity to flow are called insulators.



### Key Vocabulary

We are getting better at communicating scientifically



Electric Current: A flow of electricity through a wire.



Wires: Plastic-coated electrical wire conduct electricity around the circuit.



Bulb (lamp): A component which lights up when electricity passes through it in a circuit.



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.



**Buzzer:** a component that makes a noise when electricity passes through it in a circuit.



Switch: Part of a circuit which can I easily be opened or closed to control the flow of electric current.

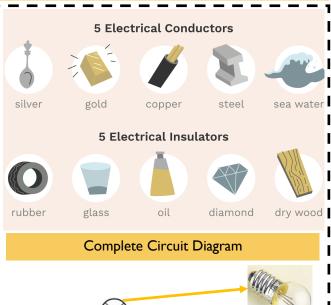


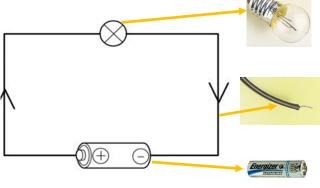
**Conductor:** A material which allows electricity to flow through it.



**Electrical Insulator:** A material which does not allow electricity to flow through it.









# Important People



**James West** invented the microphone that is in the phone.



**Edith Clarke** wrote one of the most important books on electrical engineering.

**Ne Are Building Our Knowledge From** Materials (Y2)

This will help when we learn about Electricity (Y6)