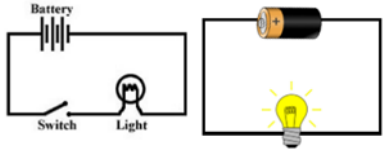


Electricity

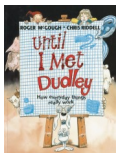
Strand: Physics

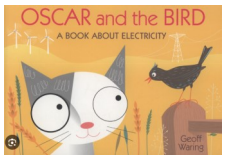


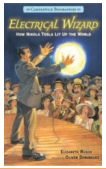
Key vocabulary

Appliance	A device in your home that is used to do a job.
Cell	A synonym for battery.
Circuit	A complete route which an electric current can flow around.
Component	The parts that something is made of.
Conductor	A substance that heat or electricity can pass through or along.
Electricity	A form of energy that can be carries by wires and is used for hearing and lighting.
Insulators	A non-conductor of electricity or heat.
Mains	Where the supply of water, electricity or gas enters a building.
Motor	A device that uses electricity or fuel to produce movement.
Switch	A small control for an electrical device which you use to turn the device on and off.

Exciting books





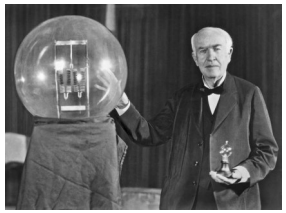


Did you know?

- Electricity is generated using energy from natural sources such as the Sun, oil, water and wind. These can also be called fuel sources.
- Some appliances use batteries and some use mains electricity.
- A circuit contains a battery (cell), wires and an appliance that requires electricity to work (such as a bulb, motor or buzzer).
- When the switch is off, the current cannot flow.

Significant People





Humphry Davy

(Chemist)

Invented the first electric light. He connected two wires to a battery and attached a charcoal strip between the ends of the wires. The carbon then glowed, this make the first ever Electric Arc Lamp

Thomas Edison

(Inventor)

Developed Humphry Davy's idea of the electric light to help him invent the first incandescent lightbulb. It lasted about 40 hours.

Sticky knowledge

A source of electricity (mains of 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 easily are called insulators.

Useful websites

https://www.stem.org.uk/resources/community/collection/12388/year-4-electricity

https://www.theschoolrun.com/what-is-electricity

https://www.youtube.com/watch?v=MqHsKZNwiMA