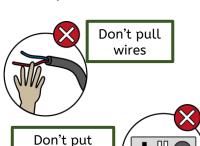
Electricity

Electrical safety

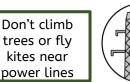
It is important to be safe when working with electricity.















Key vocabulary

- electrical appliance/device: something that needs electricity to work. a kettle is an electrical appliance, it uses electricity to heat up a metal wire that then boils the water.
- electrical circuit: a path that electricity can flow through. the path must be a complete loop (complete circuit) for the components to work.
- incomplete circuit: a loop that is *not* complete. electricity cannot flow through, so the components in the circuit will not work.

Complete circuits

A complete circuit must have:

at least one cell

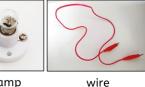
your fingers

in sockets

- At least one component
- have all the components connected in a loop.

If any of these things are missing it is an incomplete circuit.







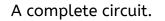
buzzer





cell motor







A switch can be used to create a break in a circuit.

Conductors and insulators

- Materials that let electricity pass through them easily are known as good **electrical** conductors.
- Copper, iron, steel are good conductors.
- Electrical insulators do not allow electricity to pass though them easily. They are poor electrical conductors.
- Wood, plastic, rubber and air are good insulators.

