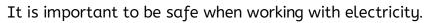
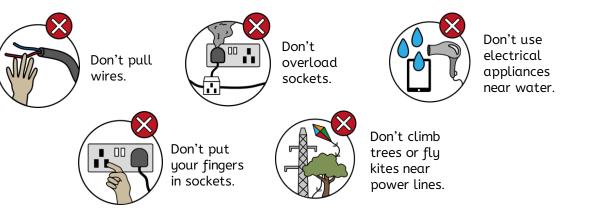
# Electricity

### Electrical safety





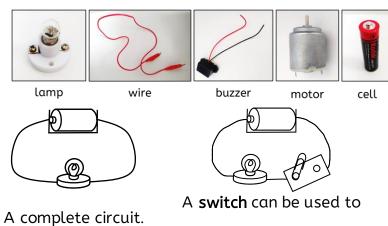
### Complete circuits

A complete circuit must have:

- at least one cell
- at least one component
- have all the **components** connected in a loop.

If any of these things are missing

it is an **incomplete circuit**.



create a break in a circuit.

## Key vocabulary

- electrical appliance/device: something that needs electricity to work, like a kettle or TV.
- **electrical circuit:** a complete loop that electricity can flow through.

#### Conductors and insulators

- Materials that let electricity pass through them easily are known as good **electrical conductors**.
- Copper, iron and steel are good electrical 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.