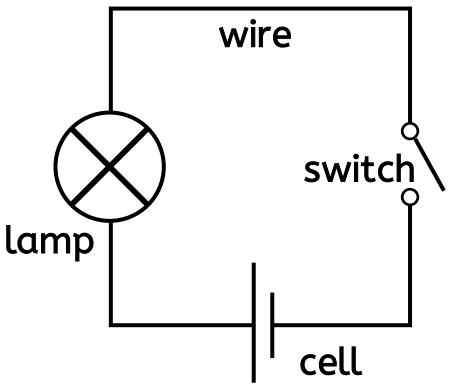
# Electricity

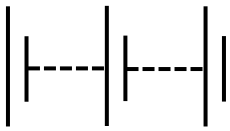
## Circuit symbols and diagrams

When drawing an electrical **circuit**, use straight lines and symbols to represent the **components** of the circuit.



motor

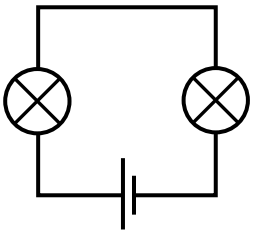
buzzer



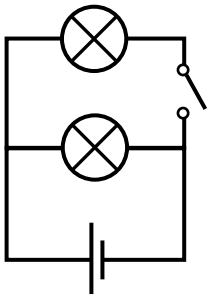
**battery** (which is formed when we connect two or more cells. Adding more cells increases the voltage of the circuit.

## Series and parallel circuits

More than one lamp (or other component) can be placed in a circuit.



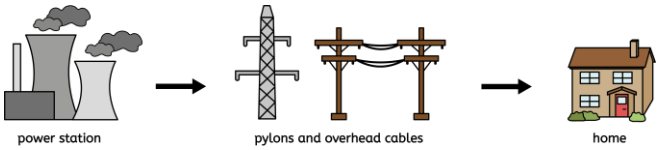
If the lamps are placed in one continuous loop, it is a **series circuit**.



If lamps are placed in separate loops that both connect to the cell, it is a **parallel circuit**.

## Generating electricity

Power stations **generate** mains electricity. The electricity is transferred to our homes and school by overhead cables.



Some power stations burn **fossil fuels** (coal, oil and gas) to generate electricity. These are **non-renewable** sources of energy.

Renewable sources of energy include:

solar

wind

geothermal

tidal