

Y4: Electricity knowledge organiser

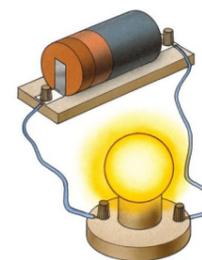


What is electricity?

Electricity is the flow of an electric current or charge through a material. For example, from a power source through wires to an appliance

Simple circuits

- A cell, wire and bulb are needed to construct a single circuit
- Switches can be used to open and close circuits
- Electrical circuits can be used to provide power, such as a lightbulb
- Circuits must contain a power source (battery/cell) in order to work



Conductors

- Some materials allow electricity to pass through them easily
- Materials that allow electricity to pass through them are called conductors



copper



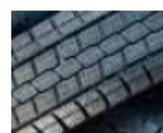
silver



water

Insulators

- Other materials don't allow electricity to pass through them
- Materials that don't allow electricity to pass through them are called insulators



rubber



glass

Vocabulary

- electricity
- electrical appliances
- circuit
- bulb
- battery
- cell
- motor
- mains power
- switch
- buzzer
- conductor
- insulator
- crocodile clip
- wire
- electrical symbol

