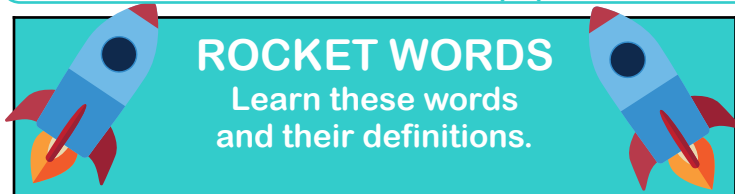


It is very important to be safe with electricity.
Electricians are trained to be safe with electrical
circuits and equipment.

Knowledge Organiser Year 4 Unit: Electricity

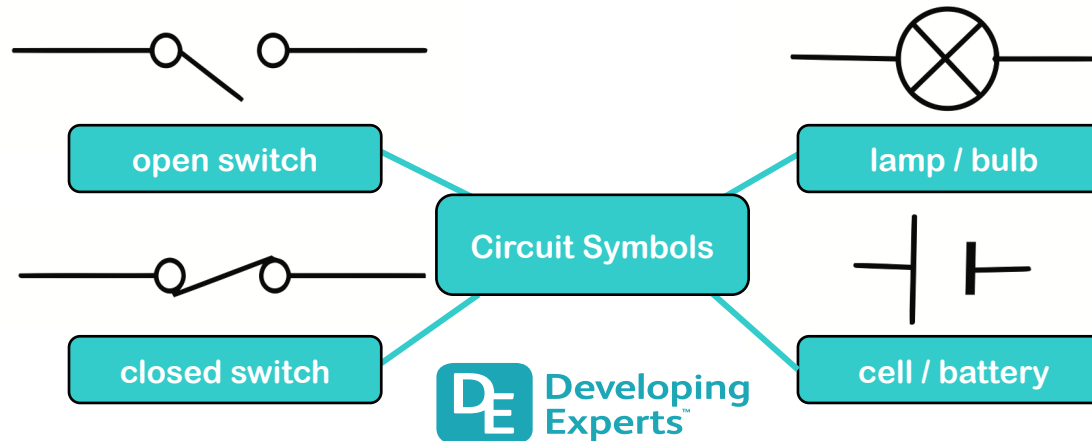
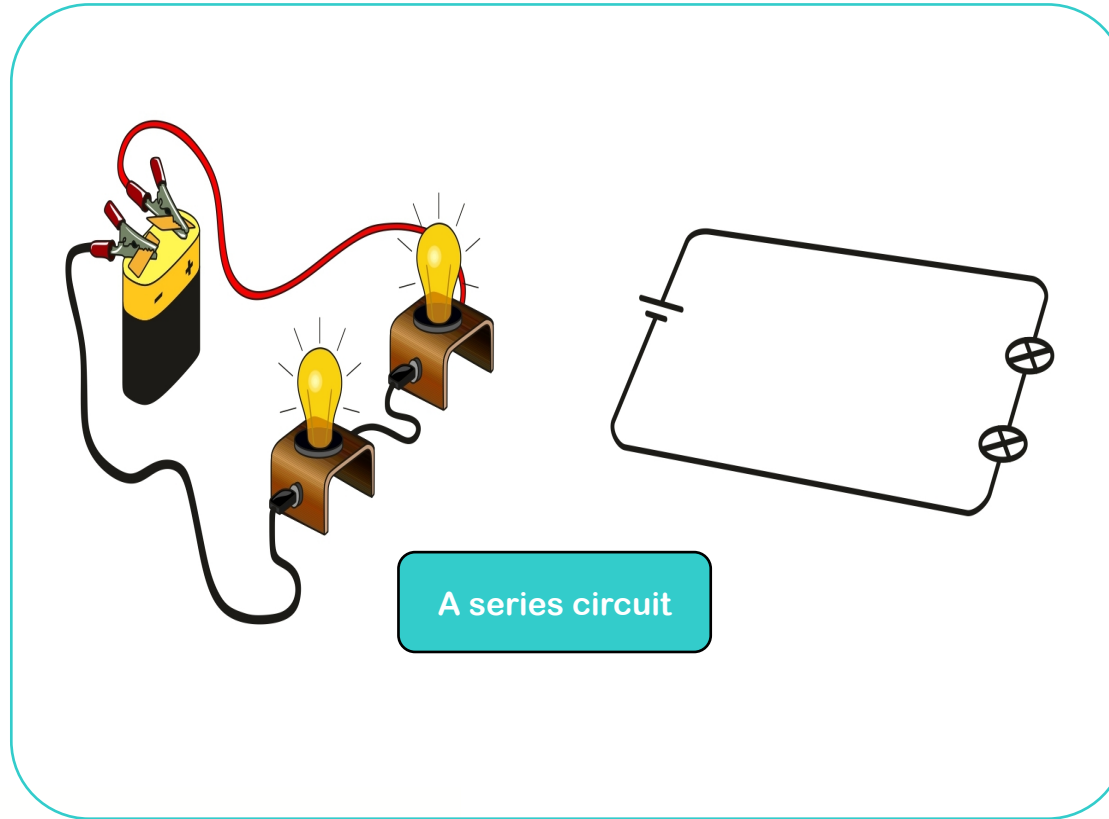
All metals are good conductors of electricity and
materials like rubber are good insulators.



ROCKET WORDS

Learn these words
and their definitions.

Key Word	Definition
series circuit	A looped circuit where the electricity flows from the positive to negative terminal of the battery.
circuit diagram	Electrical components shown in a picture by using standard symbols.
parallel circuit	A circuit with two or more pathways for the current to flow through.
conductor	Materials which allow electricity to flow through them with ease.
insulator	Materials that do not allow electricity to pass through them with ease.
loop	A complete circuit.
switch	A toggle which is changed by someone as way of controlling an electrical circuit or system.
resistance	A measure of how much an object opposes the flow of electrons.



UNIT LESSONS

1

Identify common electrical appliances, construct a simple electrical circuit, identify and name basic parts of a circuit

2

Identify when a lamp will light in a simple series circuit

3

Understand the difference between a series and parallel circuit

4

Explain how to recognise some common conductors and insulators, give examples of good and poor conductors

5

Know how an electrical circuit works

6

To know how to work safely with electricity

We can conserve energy by:

- Turning off electrical devices
 - Turning lights off
- Using renewable sources such as solar and wind power
 - Using energy-saving lightbulbs