

What should I already know?

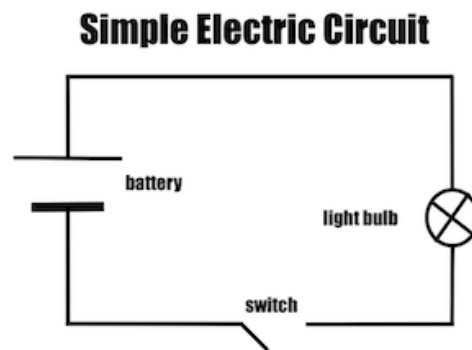
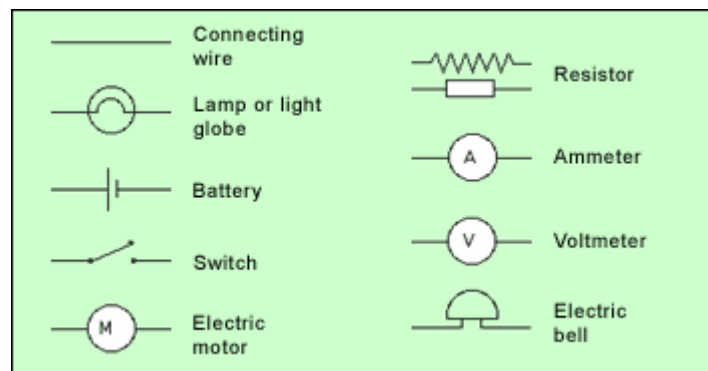
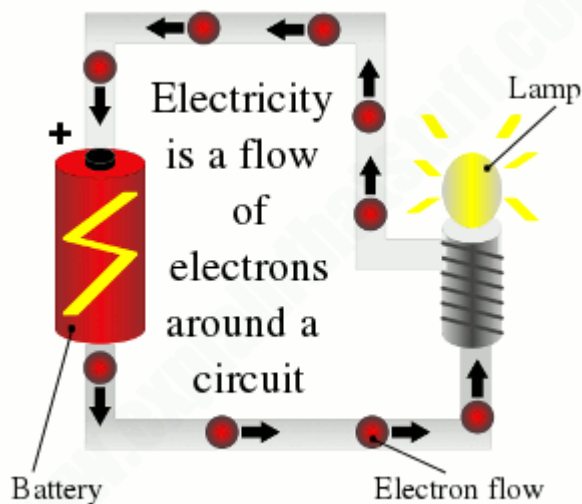
- How to construct a simple series circuit
- To name key components of an electricity circuit: cells, wires, bulb, switches and buzzers
- The role of a switch in a circuit
- Be able to name some common conductors and insulators

Scientific Skills and Enquiry

- To plan systematically, identifying the effect of changing one component at a time
- Make observations based on changes to a circuit
- Record circuits using recognised symbols
- Make predictions about the effect changes to components might have

What should I know by the end?

- The brightness of a bulb within a series circuit is associated with the number and voltage of cells in a circuit
- How to compare and give reasons for variations in how components function
- Use recognised symbols when representing circuit diagrams
- How to explain the difference between a series and parallel circuit

A Simple Circuit Diagram**Circuit Diagram Symbols****How Electricity Works**

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Vocabulary

Voltage – the difference in electrical charge between two points

Electrical Circuit – the path in which electrons flow from a current source

Amp – measures the rate at which the charge is moving

Parallel Circuit – a closed circuit where the current divides into two or more paths

Series Circuit – a closed circuit where the current follows one path

Component – a part of the electrical power system

Cell – a device that can change some form of energy into electricity

Battery – a connected group of cells