

Dunalley Primary School - Science

Topic: Electricity

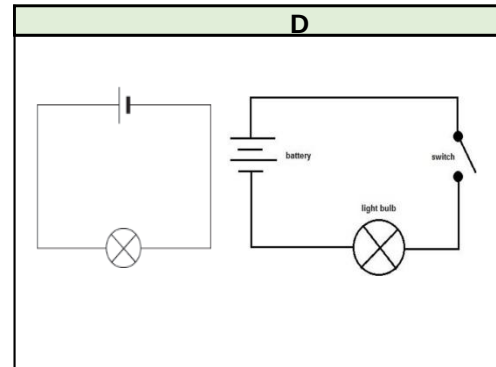
Year 6

What should I already know?

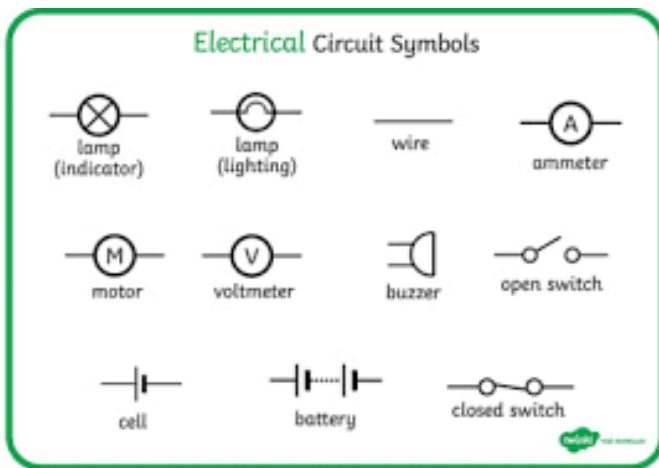
- **Electricity** is a form of **energy** that can be carried by wires and is used for heating and lighting, and to provide **power** for **devices**.
- **Sources** of light and sound may need **electricity** to work.
- Where **electricity** comes from
- Which **appliances** need **electricity**
- What a **circuit** is, the **components** of a circuit and how it works.
- What **electrical conductors** and **insulators** are.
- What happens when a **switch** is added to a circuit.
- What **forces** and **resistance** are.

What I should know by the end of the unit.

- How adding more cells affects the brightness of a bulb or the sound of a buzzer.
- How to draw circuit diagrams.
- How to explain why circuits do or don't work.



Scientific Learning and Enquiry



- Match **circuit** symbols to their meanings and their words.
- Predict, then investigate what happens when more cells are added to a circuit. Explain why this happens.
- Predict, then investigate what happens when more bulbs, motors are added to a circuit. Explain why this happens.
- Systematically identify the effect of changing one component at a time in a circuit.
- Use **circuit** symbols when representing a simple **circuit** in a diagram.
- Design and make a set of traffic lights, a burglar alarm or some other useful **circuit**.
- Investigate what happens when the **voltage** of the battery changes.

ammeter	measures the current in a circuit
appliance	a device or machine in your home that you use to do a job such as cleaning or cooking . Appliances are often electrical .
battery	two or more cells that provide the power for a circuit. Outside of science they are known as small devices that provide the power for electrical items such as torches
bulb	A glass holder containing a wire which gives out light when electricity passes through it.
buzzer	an electrical device that is used to make a buzzing sound
cell	a single power source for a circuit, two or more cells makes a battery .
circuit	a complete route which an electric current can flow around
component	the parts that something is made of
conductor	a substance that heat or electricity can pass through or along
current	a flow of electricity through a wire or circuit
device	an object that has been invented for a particular purpose
electricity	a form of energy that can be carried by wires and is used for heating and lighting, and to provide power for devices

energy	the power from sources such as electricity that makes machines work or provides heat
fuel	a substance such as coal, oil , or petrol that is burned to provide heat or power
generate	cause it to begin and develop
insulator	a non- conductor of electricity or heat
mains	where the supply of water, electricity , or gas enters a building
motor	a device that uses electricity or fuel to produce power
power	power is energy , especially electricity , that is obtained in large quantities from a fuel source and used to operate lights, heating, and machinery
resistance	a force which slows down a moving object or vehicle
source	where something comes from
switch	a small control for an electrical device which you use to turn the device on or off
voltage	the force of an electric current as measured in volts
wires	a long thin piece of metal that is used to fasten things or to carry electric current

