Electricity

Overview of unit / topic

In this unit we will be investigating electricity. We will consider which common appliances use electricity. We will then identify electrical conductors and electrical insulators. We will investigate how electrical circuits work and what would prevent them from working.

Key Questions

What is electricity?

Why is electricity important?

What do we use electricity for?

How do we generate electricity?

What is a conductor?

What is an insulator?

What will make a bulb brighter?

What will make a bulb dimmer?

Key Vocabulary				
Electricity	A flow of charged particles. An important form of			
	energy which powers things around us.			
circuit	A path that an electrical current can flow around.			
Symbol	A visual picture that stands for something else.			
Battery/cell	A device that stores chemical energy until it is			
	needed. A cell is a single unit. A battery is a			
	collection of cells.			
Current	The flow of electrons, measure in amps.			
Amps	How electric current is measured.			
Voltage	The force that makes the electric current move			
	through the wires. The greater the voltage, the			
	more current will flow.			
Resistance	The difficulty the electric current has when flowing			
	around a circuit.			
Electrons	Very small particles that travel around an electrical			
	circuit.			

Key Knowledge and Understanding: What will we be learning about in this unit / topic?

To identify common appliances that run on electricity.

Construct a simple circuit containing a cells, wires, bulbs, switches and buzzers.

To identify if a lamp will light in a simple circuit.

To recognise that a switch opens and closes a circuit.

To recognises some common conductors and insulators.

To associate metals with being good conductor.

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battery	closed switch	open switch	cell	voltmeter
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buzzer	lamp	lamp	motor	wire