



Year: **4**

Subject: **Science**

Title:

Electricity

What key knowledge do I need to have before this unit?

- identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock
- describe the simple physical properties of a variety of everyday materials
- We use electricity to power everyday items

Key outcomes:

What I need to know by the end of this unit of work:

- 1) Name common appliances that use electricity
- 2) Build and draw series circuits
- 3) Spot that a circuit isn't working and explain why
- 4) Explain what a conductor and insulator is

Key knowledge:

Electricity is energy that travels through wires to power our electrical appliances.

Electrical appliances include: microwave, TV, kettle, computer, torch, lights, phone, fridge, shower.

Key Vocabulary and Definitions:

- **plug** – a device put into a socket to connect to an electrical circuit
- **socket** – the part of the electrical circuit where the plug fits to make a connection
- **cell** – a portable store of energy
- **electrocuted** – to be injured or killed by electricity
- **circuit** – a closed path that energy can flow through
- **switch** – a device that opens and closes an electrical circuit
- **cell** – a portable store of energy
- **battery** – two or more cells joined together to store more energy
- **buzzer** – a device that makes a sound
- **conductor** – a material that allows energy to flow through it
- **insulator** – a material that does not allow energy to flow through it
- **metal** – a material which can be hard, shiny and a conductor of electricity
- **material** – what an object is made from