

What am I going to learn in this unit?

Vocabulary I need to know

## Sticky Knowledge

- I can recall a range of electrical appliances and classify them as mains or battery powered.
- I can identify symbols for bulb, battery, motor, open and closed switches.
- I can identify a simple circuit and a series circuit.
- I can explain how to test if a circuit works and identify when simple electric circuits will work.
- I can predict whether a circuit will work based on whether the switch is open or closed.
- I can describe a material that is a good electrical conductor and a good electrical insulator.
- I know that metals are good electrical conductors and plastics are good electrical insulators.
- I can explain that adding another bulb to a series circuit will make the bulbs dimmer as less energy is transferred.
- I can give examples of different ways to stay safe around electrical circuits.

## Working Scientifically

- I can draw a table and correctly complete it by classifying electrical appliances.
- I can identify and draw electric circuit symbols and use these to draw a complete circuit.
- I can write the method for an investigation that considers equipment and safety.
- I can pose questions relating to bulbs in a circuit.
- I can explain why a question is a good question to test.

### Cell



An 'electrical power supply'. Also called a battery

### Conductor

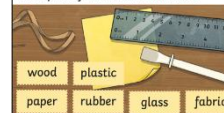
Examples of Electrical Conductors



A material or device that conducts or transmits electricity.

### Insulator

Examples of Electrical Insulators



A substance or device which does **not** readily conduct electricity.

### Electricity



A form of energy that can give things the ability to move and work.

### Electrical Circuit



A pathway that electricity can flow around.

### Bulb



A device that produces light from electricity. Lights up in a complete circuit.