

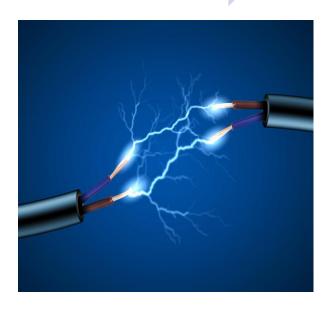
Year 4

Electricity

Later, in Year 5, you will learn: Explore the functions of various circuitry equipment

Knowledge

By the end of this unit of study, pupils will be able to:		
One	Identify common appliances that run on electricity.	
Тwo	Construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers.	
Three	Identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery.	
Four	Recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit.	
Five	Recognise some common conductors and insulators, and associate metals with being good conductors.	



Key Learning

Many household devices and appliances run on electricity. Some plug in to the mains and others run on batteries. An electrical circuit consists of a cell or battery connected to a component using wires. If there is a break in the circuit, a loose connection or a short circuit, the component will not work. A switch can be added to the circuit to turn the component on and off.

Metals are good conductors so they can be used as wires in a circuit. Non-metallic solids are insulators except for graphite (pencil lead). Water, if not completely pure, also conducts electricity.

Key Vocabulary

Electricity, electrical appliance/device, mains, plug, electrical circuit, complete circuit, component, cell, battery, positive, negative, connect/connections, loose connection, short circuit, crocodile clip, bulb, switch, buzzer, motor, conductor, insulator, metal, non-metal, symbol