



Key knowledge:

Electricity	
What is electricity?	Electricity is created by generators powered by gas, coal, oil, wind or solar. Electrical energy can be converted into other types of energy such as light, heat, movement or sound. Electricity is dangerous so we must be careful when using electrical appliances.
An electrical circuit	
Increasing the brightness of a bulb or volume of a buzzer	The more batteries (cells) that are used in a circuit, the brighter the bulb or louder the buzzer will be. If one battery (cell) is used, the higher its voltage, the more powerful the battery (cell) is. If one battery (cell) is used, the lower its voltage, the less powerful the battery (cell) is.

Possible experiences:

Set up a circuit and experiment with ways to make the bulbs brighter and buzzers louder.
Design and make a set of traffic lights or burglar alarm.
Identify the effects of changing a component in a circuit.


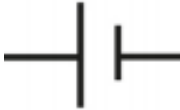






Key concepts:

Reasoning	Recognising
Comparing	Making links

Key vocabulary:

Generator	A machine that makes electrical energy
Component	A part of the circuit
Voltage	A measure of the difference in electrical energy between two parts of a circuit

Diagrams:

	Wire
	Battery (cell)
	Bulb
	Switch
	Buzzer
	Motor
	Voltmeter
	Ammeter