

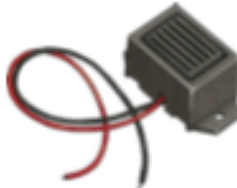



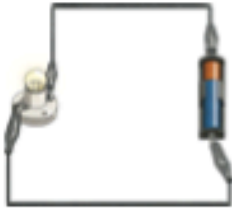









Electricity

Year 4

Key Vocabulary		Components (Parts) Vocabulary		
electricity	The flow of an electric current through a material, e.g. from a power source through wires to an appliance .	cell: Normally, we would call this a battery but scientifically, this is a cell. Two or more cells joined together form a battery .	bulb: Lights up in a complete circuit .	buzzer: Makes a noise in a complete circuit .
appliances	A piece of equipment or a device designed to perform a particular job, such as a washing machine or mobile phone.			
battery	A device that stores electrical energy as a chemical.	wires: Used to connect the different components in the circuit together.	motor: Produces movement in a complete circuit .	switch: Used to turn other components in the circuit on or off.
circuit	A pathway that electricity can flow around. It is based around wires and a power supply. Examples of components (parts) you can add in to a circuit are bulbs, switches, buzzers and motors.			
Complete Circuit  Electricity can flow. The components will work.		Incomplete Circuit  There is a break in the circuit that prevents the electricity from flowing. The components will not work.		
		Switches can be used to open or close a circuit . When off, a switch 'breaks' the circuit to stop the flow of electricity . When on, a switch 'completes' the circuit and allows the electricity to flow.		
		 toggle switch	 push button switch	 slide switch

Electricity		Year 4	
Key Vocabulary		Key Knowledge	
mains electricity	Electricity supplied through wires to a building.	Examples of Electrical Conductors	Examples of Electrical Insulators
electrical conductor	A conductor of electricity is a material that will allow electricity to flow through it.		
electrical insulator	Materials that are electrical insulators do not allow electricity to flow through them.	To work safely with circuit components in the classroom: <ul style="list-style-type: none"> • None of the equipment needs to use mains power, so do not put any of it in or near plugs. • Report any damaged or broken equipment to your teacher. Do not use it. • Only use equipment as instructed. • Connect equipment correctly. • Disconnect equipment after use and put it away neatly. 	
Appliances		Materials can be tested in a circuit to see if they are electrical conductors or electrical insulators .	
Many everyday appliances rely on electricity for them to work. Some appliances use mains electricity (are plugged into a socket) and others have a battery to make them work. Examples of mains -powered appliances include toasters and televisions. Battery -powered appliances can include mobile phones and torches.			
mains-powered	battery-powered		
