## Electricity

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 <b>appliance</b> .		<b>cell:</b> Normally, we would call this a <b>battery</b> but scientifically, this is a cell.	complete	phts up in a circuit.	<b>buzzer:</b> Makes a noise in a complete <b>circuit</b> .
appliances	A piece of equipment or a device designed to perform a particular job, such as a washing machine or mobile phone.		Two or more cells joined together form a <b>battery</b> .			
battery	A device that stores electrical energy as a chemical. Two or more cells joined together form a <b>battery</b> .		wires: Used to connect the different components			, <b>switch:</b> Used to turn other components in the
circuit	A pathway that <b>electricity</b> can flow around. It is based around wires and a power supply. Examples of components (parts) you can add in to a <b>circuit</b> are bulbs, switches, buzzers and motors.		in the circuit together.		circuit on or off.	
Series Circuit A circuit where the components are connected in a loop. Electricity flows through each component in a single pathway. Electricity can flow. The components will work.		Incomplete Circuit There is a break in the circuit that prevents the electricity from flowing components will not we	e to . The sv	i <mark>rcuit</mark> . When off, a	used to open or close a switch 'breaks' the circuit f electricity. When on, a the circuit and allows the n slide switch	







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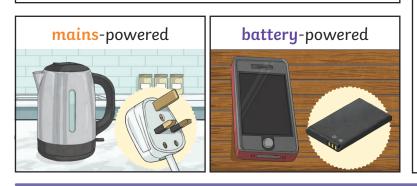
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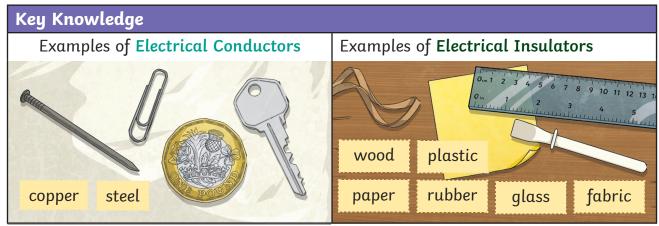
Year 4

Key Vocabulary				
mains electricity	<b>Electricity</b> supplied through wires to a building.			
electrical conductor	A conductor of electricity is a material that will allow electricity to flow through it.			
electrical insulator	Materials that are <b>electrical</b> <b>insulators</b> do not allow <b>electricity</b> to flow through them.			

## Appliances

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.





To work <u>safely</u> with <u>circuit</u> components in the classroom:

- 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.

Materials can be tested in a circuit to see if they are electrical conductors or electrical insulators. 10p = metal = test circuit ru electrical conductors

