## Electricity

electricity	The flow of an electric current	
J	through a material, e.g. from a	Lightning and static <b>electricity</b> are examples of <b>electricity</b> occurring naturally
	power source through wires to an appliance.	but for us to use electricity to power appliances, we need to make it.
generate	To make or produce.	Coal, oil and natural gases are fossil fuels which, when burnt, produce heat which can be used to generate electricity.
renewable	A source of <b>electricity</b> that will not run out. These include solar, nuclear, geothermal, hydro and wind.	
non-renewable	This source of energy will eventually run out and so will no longer be able to be used to make <b>electricity</b> . These include fossil fuels – coal, oil and natural gas.	
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.	

6

plugged into a socket) and others

have a **battery** to make them work.

## Electricity



There are two types of electric current.

Mains **electricity**: power stations send an electric charge through wires to transformers and pylons. Then, underground wires carry the electricity into our homes via wires in the walls and out through

plug sockets.



**Battery electricity: batteries** store chemicals which produce an electric current. Eventually, even rechargeable **batteries** will stop producing an

electric current.



## Key Knowledge



only flow around a complete **circuit** that has no gaps. There must be wires connected to both the positive and negative end of the power supply/**battery**.

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.



A conductor of **electricity** is a material that will allow **electricity** to flow through it. Metals are good conductors. Materials that are electrical insulators do not allow **electricity** to flow through them. Wood, plastic and glass are good insulators

