St White's Primary School – Science

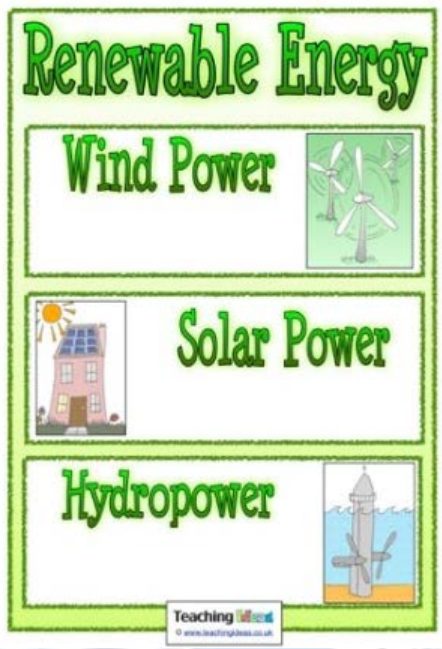
Phase: LKS2	Topic: Electricity

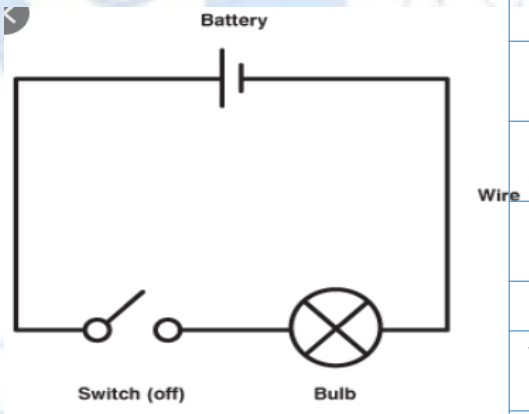
What should I already know?

- We have to be careful with electricity, it can be very dangerous
- We use a lot of things in our day to day lives that require electricity in order to work

What will I know by the end of the unit?

- In order to work, a circuit must be complete and the switch must be closed
- Changing the number of devices in a circuit affects the output of the devices e.g. adding an extra bulb to a circuit will make each bulb dimmer
- Lots of appliances run on electricity, like a fridge, TV and computer.
- Mains electricity is dangerous.
- Metals are good conductors of electricity.
- Electrical wires are made of metal.
- Renewable energy is must better for the environment as it is sustainable and less polluting
- Examples of renewable energy are solar, wind and hydro electricity





Technical vocabulary	
Electricity	A form of energy that is carried by wires and is used for heating, lighting and to power appliances
Circuit	A complete route which electricity can flow around
Cell	This provides the power for the circuit; battery
Wire	A thin piece of metal that is used to carry the electric current
Lamp	Lights up when powered by electricity
Bulb	The glass part of a lamp
Buzzer	An electrical device that is used to make a buzzing sound
Motor	An electrical device that powers movement
Switch	A small control that is used to turn a device on or off
Appliance	A device or machine that is used to do a job eg computer, cooker
conductor	An electrical conductor lets electricity pass through it, they are often made of metal
insulator	An electrical insulator does not let electricity pass through it
Renewable energy	Renewable sources of energy are those that will never run out e.g. solar, wind and water energy
Sustainable	Sustainable energy is made from sources that will not run out
Solar power	Electricity made by using the Sun's energy
Wind power	Electricity made by using wind energy (wind turbines)
hydroelectricity	Electricity made by using the power of water