Year 4- Autumn 1 - What is there was no electricity in the morning?				
Key Vocabulary		Prior learning	<u>Sticky Knowledge</u>	
Circuit Battery	An electrical circuit is a completed path through which an electrical current flows. A battery is a device that	We know we use electricity in our daily lives. We know there are dangers involved when	Electricity can be generated by from power stations, wind, the sun, water and even animal poo!	
	stores chemical energy and makes it available in an electrical form.	using electricity. Knowledge and Assessment: In this unit children will identify common appliances that run on battery and mains electricity, and name some appliances that do the same job but are operated manually. They will learn the names and functions of simple electrical components including batteries, bulbs, buzzers, wires and switches. They will understand the need for a complete loop for a bulb to light or a buzzer to buzz, and will construct simple circuits to light a bulb and make a buzzer buzz. They will then insert a	Electricity is a naturally occuring energy source i.e. lightning.	
Insulators	An insulator is a material whose internal electric charges do not flow freely - does not allow electricity through.		A power station is a place where electricity is created and sent to our homes. Electricity travels at the speed of light, which is more than	
Conductors	A conductor is an object or type of material that allows the flow of an electrical current in one or more directions		186,000 miles per hour. One flash of lightning could power 1000 houses for a whole year.	
Cells	An electrical cell is a device that is used to generate electricity.		When an electric charge builds up on the surface of an object it makes static electricity. This is why we sometimes have a small electric shock.	
Socket	Sockets allow electrical equipment to be connected to the alternating current (AC) power supply in	and off. Working Scientifically, children will raise questions	Thomas Edison was a very famous inventor who helped us make the most of electricity from bulbs to fuses.	
Appliance	buildings and at other sites. An electrical appliance is a device that uses electricity to perform a	related to electrical insulation and conductivity. They will plan and carry out investigations, make predictions, record results in appropriate ways and	An electrical conductor allows electricity to flow through it whereas an electrical insulator doesn't allow it to flow through.	
	function.	draw conclusions. They will apply knowledge about electrical circuits and conductors to design and	Burning fossil fuels is the most common form of generating electricity even though it is a non-renewable method.	
Generate	To produce or create	make a switch.		
Fossil fuels	A natural fuel such as coal or oil formed in the past from the remains of living organisms.			