Year 4 Electricity.					
Key vocabulary		Key Knowledge		Scientific Enquiry	
battery	A device that makes electricity to power other objects.	ling	• Things that are metallic allow electricity to flow through.	σ	How would you group these electrical devices base on where the electricity
bulb	A device that creates electric light.	Preceding	 Metals are a group of materials that are often strong. Many man-made sources of light are a result of 	Identifying and classifying	comes from?
circuit	A path that an electric current travels along.		 electricity (either battery or mains powered). Current is the flow of electrons around a circuit. 		
conductor	A material that allows the passage of electricity through it.		 Many household devices and appliances run on electricity. Some devices run on batteries - others are 	Ρ́Ι	
electricity	Energy caused by the movement of electrons through matter.		 powered by mains electricity Electrical current flows when there is a complete 	testing	Which material is the best conductor of electricity?
electron	Particles that move through matter to result in electricity.		 circuit. Current is the flow of electricity around a circuit When there is a break in a circuit a lamp will not 	tive te	
insulator	A material that does not conduct electricity.	÷	light up as the circuit is not complete • An open switch means that there is not a	Comparative	
motor	A machine that causes motion or power.	Current	complete circuit and electrical current will not flow		llow love desce a battery light a torob
National Grid	A company that provides electricity in the UK.		• Electricity flows easily through some materials (conductors) and poorly through others	, time	How long does a battery light a torch for?
switch	A device that opens and closes an electric circuit.		 (insulators) Most metals are good conductors of electricity Wires contain a metal within them that conducts 	ig over	
			 electricity and allow current to flow Wires are covered in an insulator to prevent electrical shocks if people touch them High levels of electrical current can be dangerous Water is a conductor of electricity - electrical devices should be kept away from water 	Fair Testing Observing	How does the thickness of a conducting material affect how bright the lamp is?