Programme of Stu	udy Statements	Key Vocabulary			
 Identify common 	appliances that run or	electricity.			Electricity, electrical appliance/device, mains, plug,
Construct a simp	le series electrical circo	uit, identifying and nam	ning its basic parts, inc	luding cells,	electrical circuit, complete circuit, component, cell,
wires, bulbs, swit	ches and buzzers.	battery, positive, negative, connect/connections,			
Identify whether	or not a lamp will light i	n a simple series circu	it, based on whether o	r not the lamp is	loose connection, short circuit, crocodile clip, bulb,
part of a complete	e loop with a battery.	switch, buzzer, motor, conductor, insulator, metal,			
Recognise that a	switch opens and clos	non-metal, symbol			
lights in a simple	series circuit.	N.B.			
Recognise some	common conductors a	Children in Year 4 do not need to use standard			
conductors.					symbols for electrical components, as this is
		taught in Year 6			
Investigations and					Sticky Knowledge: A source of electricity (mains of battery) is needed for electrical devices to work. • Electricity sources push electricity round a circuit. • More batteries will push the electricity round the circuit faster. • Devices work harder when more electricity goes through them. • A complete circuit is needed for electricity to flow and devices to work. • Some materials allow electricity to flow easily and these are called conductors. Materials that don't allow electricity to flow easily are called insulators.
<u>Comparative Tests</u>	Identify & Classify	Observation over time	Pattern seeking	Research	Prior Knowledge:
			Which room has the	How bas	Children know about similarities and differences in
How does the	How would you group		most electrical	electricity	relation to places, objects, materials and living
conducting material	these electrical devices	How long does a	sockets in a house?	changed the	things. They talk about the features of their own
affect how bright the	electricity comes from?	battery light a torch		way we live?	immediate environment and how environments
lamp is?	·····, ·····	IOF?		How does a	might vary from one another. They make
					abaanvations of animals and plants and availain
					observations of animals and blants and explain
Which metal is the					why some things exert and talk should shore a
Which metal is the best conductor of					why some things occur and talk about changes.
Which metal is the best conductor of electricity?					why some things occur and talk about changes. (Early Learning Goal)

-	Potontial Evidence to sunnext our Scientists (Future Knowledge:	
•	Potential Evidence to support our Scientists (1)	i uture Kilowieuge.	
•	Can name the components in a circuit	• Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the	
	Can control a circuit using a switch		
•	Can control a circuit using a switch		circuit. (Y6 - Electricity)
•	Can name some metarials that are insulators	 Compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches. (Y6 - Electricity) 	
•	Can name materials that are insulators		
•	connected		
• • • Big Wl	Use classification evidence to identify that metals insulators Can incorporate a switch into a circuit to turn it or Can connect a range of different switches identify Can add a circuit with a switch to a DT project an Can give reasons for choice of materials for maki Can describe how their switch works Question: nat can we do with electricity?	circuit in a diagram. (Y6 - Electricity)	
Cultu	ıral Capital		
Visit	s and visitors	Experiences and events	Key texts
Wet	ne Curious (Bristol)		
			Until I Met Dudley (Roger McGough) Oscar and the Bird: A Book about Electricity (Geoff Waring) Electrical Wizard: How Nikola Tesla Lit Up the World (Elizabeth Rusch)
Com	munity events and links	Global issues	Famous people/ Key Scientists
		Renewable energy	Thomas Edison
		Green energy sources	(First Working Lightbulb)
			Joseph Swan
Life	Skille	Key places	(Incandescent Light Bulb)
Curios Resilie Making	sity nce Links	icy pieces	