Year 6	Electricity		
Prior learning			
• Some appliances run on electricity (Year 4)			
• Know how to construct a simple circuit (Year 4)			
• Know whether a bulb will light depending if a circuit is complete (Year 4)			
• That a switch opens and closes a circuit (Year 4)			
• That some materials conduct electricity and some insulate electricity (Year 4)			
Key learning	Key vocabulary	J	
The more voltage in a circuit, the brighter the bulb or louder the buzzer will be.	Circuit	A path that an electrical current can flow through.	
The longer the wires, the dimmer the bulb and quieter	Current	A flow of electrons measured in amps	
The shorter the wires, the brighter a bulb/ louder a buzzer will be due to less resistance.	Voltage	The force that makes the current move through the wires. The greater the voltage the more the current will flow.	
A bulb converts energy from chemical energy to light energy.	Electrons	Very small particles that travel around an electrical circuit.	
A buzzer converts chemical energy into sound energy.	Components	Individual parts of a circuit	
A switch controls the movement of electrons by	Energy	Power from chemical or physical resources	
The symbols for wire a hulb a call a battery a	Cell or	A device that stores energy as a chemical until	
buzzer and an an/aff switch	battery	it is needed. A cell is a single unit. A battery is	
When tog many electrons flow into a part of a circuit		a collection of cells.	
the circuit can 'short' (overheat/damage components)	Resistance	The difficulty the electric current has when	
Imp/bulb (indicator) Imp/bulb (indicator) Imp/bulb (indicator)		Jiowing around a circuit.	

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battery

Scientific skills		
By the end of the year, children should be able to	Opportunties for scientific enquiry within the unit:	
• Plan scientific enquires to answer different questions, recognising and controlling variables where necessary	 Pupils will test different circuits and combinations of components and assess their effectiveness in a circuit 	
 Take measurements, using a range of scientific equipment 	 Pupils inviestigate how to adapt the power of the output from bulbs, motors and buzzers Pupils will investigate how broken circuits can be fixed or corrected. 	
 Record data and results, using charts, tabels, diagrams, keys and graphs 		
• Use test results to make predictions to set up further tests		
• Report and present fingdings, drawing conclusions about results		
 Identify scientific evidence which has been used to support or refute ideas 		