



Year 4 Science

Electricity Knowledge Organiser

To understand that some common appliances run on electricity, with a focus on circuits, conductors and insulators.

Would the bulb light up?			Important facts:	Tier 2 Vocabulary	
Buzzer	Battery Bulb	Will the bulb light? Yes	Conductors let electricity pass through them and metals (iron,	light, movement, sound, energy, complete, bright, machine, heat, through, metal, iron, copper, steel, power	
		Why? The circuit has a battery and a bulb and is complete.		<u>Tier 3 Vocabulary</u>	
Buzzer		Will the bulb light?		generator = a machine that makes electrical energy	current = the flow of electrical charge
	Bulb	Why? The circuit has no battery to provide the electrical		component = needs electricity to work (e.g. a part of a circuit)	connected = something that is joined or linked
Buzzer	Switch Battery Battery Bulb	Will the bulb light?		circuit = a path through which an electric current flows	battery (cell) = stores and provides energy
		Why?		wire = thin strips of metal that conduct electricity	bulb = component that creates light
	Switch	The circuit is not complete. Will the bulb light?		switch = component that switches circuits on and off	buzzer = component that creates sound
	Battery Bulb	No Why?		 What we will be learning: To understand that some common appliances run on electricity, with a focus on circuits, conductors and insulators. identify common appliances that run on electricity construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers 	
	Switch	The switch is in the off (0) position.			
Battery (cell) Battery holder Wire Bulb Noder Bulb Bulb holder Bulb		copper, steel) are good conductors. Insulators do not allow electricity to pass through them and wood, glass, plastic and rubber are good insulators.	 identify whether or not a lamp will light in a simple series circuit. recognise that a switch opens and closes a circuit recognise some common conductors and insulators, and associate metals with being good conductors. 		