Electricity (Year 4)				
Prior Learning	Key Vocabulary			
<ul> <li><u>Year 3: Light</u> <ul> <li>Light travels to Earth from the Sun and other stars but can also be created by Electricity</li> </ul> </li> <li><u>Year 3 – Forces including magnets</u> <ul> <li>Lots of metals are magnetic. The ones that are, such as Iron, Nickel or Copper are good conductors of electricity.</li> </ul> </li> </ul>	Function: Work or operate         a particular way         Conduct: Transmit         (a form of energy         such as heat or         electricity) by         conduction	in Cause and Effect: Something happening because a different thing prompted it to happen nt Complete Circuit: A complete electrical network with a closed loop or can be made		
Key Facts	Images and Icons			
<ol> <li>Appliances, like a toaster, run on electricity. Without electricity a lot of everyday objects wouldn't work, i.e. mobile phones, TV's, computers</li> <li>A circuit needs to be complete for the electricity to flow through it and make things light up, heat up, etc</li> <li>Switches, like a light switch or doorbell, can break or complete a circuit and allow electricity to flow</li> <li>Conductors transmit electricity – some metals make good conductors</li> <li>Insulators protect items – wires are protected by a plastic material</li> <li>Electricity is extremely dangerous and should always be used safely</li> </ol>	Mains electricity: which is an alternating current (AC). Batteries: which is an alternating current (AC).	r generate a te (DC).		

Electricity (Year 6)					
Prior Learning	Key Vocabulary				
<ul> <li>Year 4: Electricity</li> <li>Electrical Conductors are materials that electricity can easily pass through, like copper, iron and gold.</li> <li>Electrical insulators don't allow electricity to flow through them, like rubber, plastic and wood</li> <li>Components in a circuit could involve a bulb, battery, cell, wires, switch or buzzer.</li> </ul>	Function: Work or operate in a particular way		<b>Cause and Effect:</b> Something happening because a different thing prompted it to happen		
	Component: A part of a larger whole	Dimmer: A device for varying the brightness of a light	Voltage: A unit of measurement showing how much electricity is running in a circuit	Variation: A change or difference	
Key Facts	Images and Icons				
<ol> <li>Electricity can only flow around a complete circuit that has no gaps. There must be wires connected to both the positive and negative end of the power supply.</li> <li>Switches can be used to open or close a circuit, affecting the flow of electrons.</li> <li>If more bulbs or buzzers are added to a circuit, the power has to be shared so they will be dimmer or quieter</li> <li>Shortening wires in a circuit means the electrons have less resistance to flow through</li> <li>The voltage and number of cells or batteries will affect the brightness of a bulb.</li> <li>Static electricity and lightning are natural forms of electricity.</li> </ol>	Iamp/bulb (indicator)	lamp/bulb (lighting) buzzer 	wire switch (open) 		