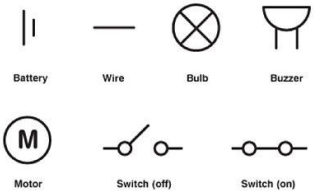





Topic	Electricity	Term	Autumn	Year Group	6
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Vocabulary		Concepts and Knowledge	
generated	to be made: electricity is generated by a generator	<p>What we will learn about electricity through our investigations:</p> <p><b>Electricity is generated</b> (made) and can be transported and used.  <b>There are renewable sources</b> of electricity generation – wind turbines, solar panels, hydro-electric power.  <b>Electricity needs a circuit</b> in order to flow.                      There are universally agreed <b>electrical symbols</b>.  <b>Circuit diagrams</b> can be drawn to show when a circuit works and when a circuit does not work, showing why.  <b>The brightness</b> of a lamp or <b>the volume</b> of a buzzer can be associated with the <b>voltage of cells</b> in a circuit.  <b>Components</b> in a circuit can be used purposefully for everyday life.</p>	<p><b>Electricity is generated</b> (made) and can be transported and used.  <b>There are renewable sources</b> of electricity generation – wind turbines, solar panels, hydro-electric power.  <b>Electricity needs a circuit</b> in order to flow.                      There are universally agreed <b>electrical symbols</b>.  <b>Circuit diagrams</b> can be drawn to show when a circuit works and when a circuit does not work, showing why.  <b>The brightness</b> of a lamp or <b>the volume</b> of a buzzer can be associated with the <b>voltage of cells</b> in a circuit.  <b>Components</b> in a circuit can be used purposefully for everyday life.</p>
renewable	A source that will not run out: sun, wind.		
non-renewable	Electricity made from sources of fuel that will run out: fossil fuels (coal, gas, oil).		
stored electricity	Electricity not from a mains supply, but a battery.		
circuit	Allowing electricity to flow around through wires and components.		
symbols	Universally agreed drawings for the components of an electrical circuit:  	<p>Conductivity</p> 	<p>Benjamin Franklin carried out experiments and made discoveries about electricity during a lightning storm.</p>
complete / incomplete circuit	A complete (whole) circuit will allow electricity to flow; an incomplete one will not.		<p>When carrying out a scientific investigation, we need:  <b>an independent variable</b> (the thing we are changing)  <b>control variables</b> (the things we are keeping the same)  <b>observations and measurements when the independent variable changes</b>  <b>dependent variable</b> (what happens as a result of the independent variable changing)</p>
switch	These can be open or closed in a circuit allowing electricity to flow or stop flowing.		
cell or battery	stored electricity		
volts or voltage	Batteries have a measure on voltage.		<p>Draw conclusions from data and observations, use evidence to justify ideas, use scientific knowledge and understanding to explain findings.</p> <p>Use scientific ideas when describing simple processes.</p>
components	Parts of an electrical circuit, like a cell, motor, switch, bulb, buzzer, wires that are positioned in a circuit.		