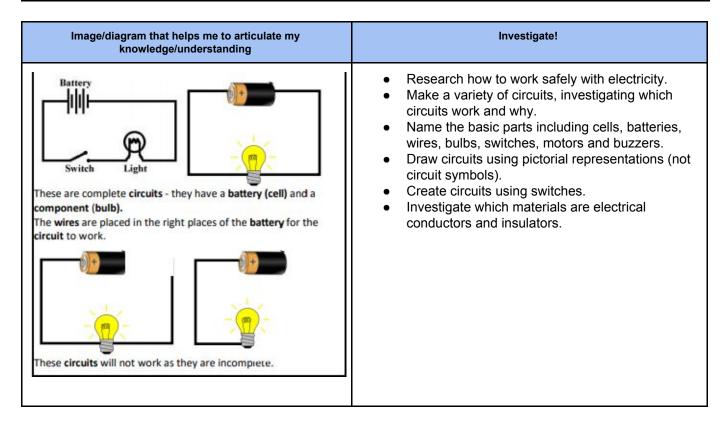
Goonhavern Primary School- Science				
TOPIC: Electricity	YEAR: 4	STRAND: Physics		

What should I know already?	What will I know by the end of the unit?		
<ul> <li>Electricity is a form of energy that can be energied by writing</li> </ul>	Where does electricity come from?	<ul> <li>Electricity is generated using energy from natural sources such as the Sun, oil, water and wind.</li> <li>These can also be called fuel sources.</li> </ul>	
carried by wires and is used for heating and lighting, and to provide power for devices.	Which appliances run on electricity?	<ul> <li>Some appliances use batteries and some use mains electricity.</li> <li>Batteries come in different sizes depending on how much and for how long the appliance is used.</li> <li>Common appliances that use electricity.</li> </ul>	
<ul> <li>Sources of light and sound may need electricity to work.</li> </ul>	How does a circuit work?	<ul> <li>A complete circuit is a loop that allows electrical current to flow through wires.</li> <li>A circuit contains a battery (cell), wires and an appliance that requires electricity to work (such as a bulb, motor or buzzer).</li> <li>The electrical current flows through the wires from the battery (cell) to the bulb, motor or buzzer).</li> <li>A switch can break or reconnect a circuit.</li> <li>A switch controls the flow of the electrical current around the circuit. When the switch is off, the current cannot flow. This is not the same as an incomplete circuit.</li> </ul>	
	What are electrical conductors and insulators?	<ul> <li>When objects are placed in the circuits, they may or may not allow electricity to pass through.</li> <li>Objects that are made from materials that allow electricity to pass through to create a complete circuit are called electrical conductors.</li> <li>Objects that are made from materials that do not allow electricity to pass through and do not complete a circuit are called electrical insulators.</li> </ul>	

Vocabulary				
Appliances A device or machine in your home that you use to do a job such as cleaning or cooking. Appliances are often electrical.				
Battery	Small devices that provide the power for electrical items such as torches.			
Bulb	The glass part of an electric lamp, which gives out light when electricity passes through it.			
Buzzer	An electrical device that is used to make a buzzing sound.			
Cell	A synonym for battery.			
Circuit	A complete route which an electric current can flow around.			
Component	The parts that something is made of.			

Conductor	A substance that heat or electricity can pass through or along.		
Current	A flow of electricity through a wire or circuit.		
Electricity	A form of energy that can be carried by wires and is used for heating and lighting, and to provide power for devices.		
Energy	The power from sources such as electricity that makes machines work or provides heat.		
Insulator	A non-conductor of electricity or heat.		
Motor	A device that uses electricity or fuel to produce movement.		
Power	Power is energy, especially electricity, that is obtained in large quantities from a fuel source and used to operate lights, heating, and machinery.		
Switch	A small control for an electrical device which you use to turn the device on or of.		
Wires	A long thin piece of metal that is used to fasten things or to carry electric current.		



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Q1	Start of Unit	End of Unit	Q3	Start of Unit	End of Unit
Q2	Start of Unit	End of Unit	Q4	Start of Unit	End of Unit