

Leintwardine Endowed CE Primary School Learning Journey Key

'Letting Our Light Shine'

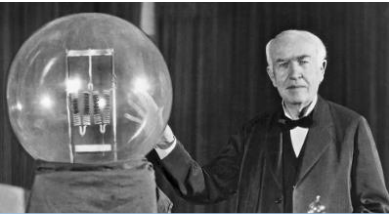
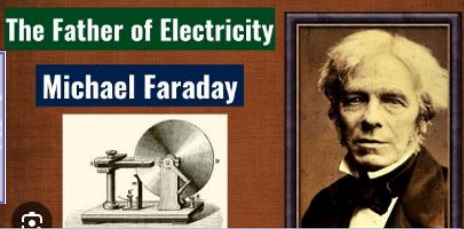

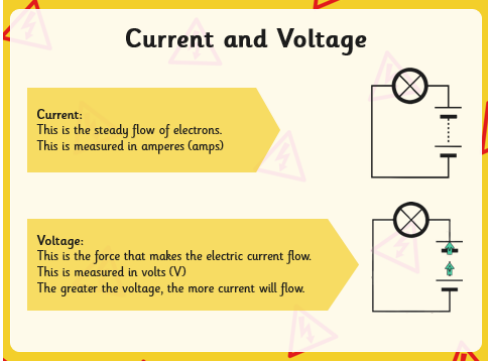
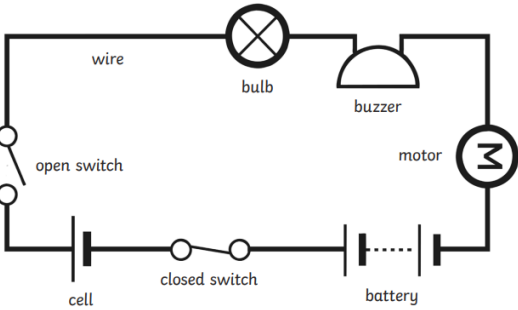
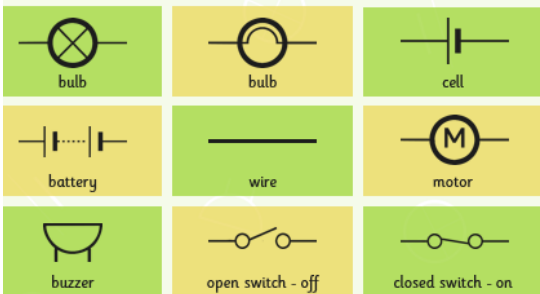
SUBJECT : Science

YEAR : B

TERM : Spring 1

YEAR GROUPS : 5/6

Key Question: What makes a lightbulb shine brightly?

| Question | Vocabulary to Use | Information which will help me | Can I....? |
|---|--|---|---|
| How has electricity affected our lives? | Electricity, Thomas Edison, Michael Faraday, Benjamin Franklin, natural electricity, man-made electricity, static electricity, insulators, conductors, complete circuit, incomplete circuit, broken circuit, wires, bulb, battery, cell, motor, buzzer, switch, voltage, electrons, amperes, amps, current, flow, scientific enquiry, variations, variables, data, prediction, conclusion. |  <p>Thomas Edison – invented the light bulb</p>  <p>The Father of Electricity Michael Faraday</p> <p>He was able to make electric current move and built electric motor and generators.</p>  <p>Alessandro Volta invented the first battery – which was known as the 'voltaic pile' as it was made of layers of zinc and copper which was either combined with sulphuric acid or saltwater brine to create an electric current.</p> <p>Volta's name was also the basis for the following words: Voltage: This is the electric force that causes free electrons to move from one atom to another. Volt: Is the unit of measurement for Voltage (written as V).</p>  <p>Current and Voltage</p> <p>Current: This is the steady flow of electrons. This is measured in amperes (amps)</p> <p>Voltage: This is the force that makes the electric current flow. This is measured in volts (V). The greater the voltage, the more current will flow.</p>   | ...explain how our understanding of electricity has changed over time? ...draw circuit diagrams using the correct symbols and label the voltage correctly? ...decide which variables to control while planning an investigation? ...decide how to report their findings? ...make new predictions based on the previous results? ...select an appropriate scientific enquiry? |
| How do I use scientific symbols to draw a circuit? | | | |
| What is voltage and what effects do they have on a circuit? | | | |
| Can I plan a scientific experiment based on electrical components? | | | |
| Can I conduct a scientific experiment based on electrical components? | | | |
| Can I use my results to plan and conduct a further investigation? | | | |

