



## TSS Primary Science MTP 2021-2022 Year 4 Block 5 – Electricity

Key Targets and Learning Objectives		Key Activities	Key Vocabulary
<ul style="list-style-type: none"> <li>Construct electrical circuits to make devices work</li> <li>Recognise components in a circuit diagram from symbols</li> <li>Identify that magnets exert pushing and pulling forces that attract or repel each other</li> <li>Investigate electrical conductors and insulators</li> <li>Investigate which metals are attracted to magnets.</li> </ul>		<ul style="list-style-type: none"> <li>Construct a simple electrical circuit.</li> <li>Match images of circuits to symbols.</li> <li>Draw circuits, using symbols.</li> <li>Investigate changes in a circuit, with alterations to a component.</li> <li>Investigate which materials allow electricity to run through them.</li> <li>Highlight the dangerous of using electrical components.</li> <li>Observe how the two poles of a magnet will attach or repel one another.</li> <li>Investigate materials that are magnetic and non-magnetic.</li> <li>Investigate the strength of a magnet using paper clips.</li> </ul>	<ul style="list-style-type: none"> <li>Battery</li> <li>Bulb</li> <li>Circuit</li> <li>Electricity</li> <li>Conductor</li> <li>Electrical insulator</li> <li>Leads,</li> <li>Motor</li> <li>Switch</li> <li>Components</li> <li>Magnet</li> <li>Magnetism</li> <li>Poles</li> <li>Repel</li> <li>Attract</li> </ul>
Working Scientifically:	Going Green Link:	Integration of technology:	
<ul style="list-style-type: none"> <li>Make predictions about which materials are electrical conductors and insulators</li> <li>Set up a fair test to discover which materials are conductors or insulators</li> <li>Set up a fair test to discover which materials are magnetic</li> </ul>	Study the use of energy efficient devices and why it is better to use energy efficient devices compared to others. Discuss alternative measures to power our homes: wind turbines, solar panels, etc.	Simple Circuits App – simulates how to create various circuits, including different components <a href="https://www.brainpop.com/games/circuitconstructionkitdc/">https://www.brainpop.com/games/circuitconstructionkitdc/</a>	