



## TSS Primary Science MTP 2023-2024 Year 3 Block 1 – Working Scientifically

Key Targets and Learning Objectives	Key Activities	Equipment
<ul style="list-style-type: none"><li>• To ask scientific questions that can be investigated.</li><li>• To identify the five main types of scientific enquiry.</li><li>• To make a prediction describing some possible outcomes of an enquiry.</li><li>• To use observations to sort, group and classify objects.</li><li>• To carry out practical work safely.</li><li>• Collect and record observations and/or measurements in tables and in diagrams.</li><li>• Identify whether results support, or do not support, a prediction.</li><li>• Make a conclusion from results and relate it to the scientific question being investigated.</li></ul>	<ul style="list-style-type: none"><li>• Investigate gas production - <a href="#">Y3 gas balloons.pdf</a> (maybe children choose how many spoons of bio carb to put in? Chn with most House Points choose first?). Measure out quantities accurately using scales or measuring cups. <i>Chemistry link</i></li><li>• Who has the biggest heads, boys or girls? Learn about scientific questions and explain your hypothesis. Use tape measures to investigate. Present results using graphs. <i>Maths Link</i></li><li>• What substance is the worst for your teeth – Fizzy drinks, juice, or tea? Submerge eggs to investigate the impact of different substances on the surface. Use tables to record observations. <i>PSHE link</i></li><li>• Investigate melting of different liquids <a href="#">Y3 - ice investigation.pdf</a> <i>Chemistry link</i> (Why do different liquids melt at different speeds?) Record results over time using appropriate equipment.</li><li>• Liquid races investigation - <a href="#">Y3 - liquids.pdf</a> Predict, record and present results – <i>Maths &amp; Chemistry link</i></li><li>• Hand out a large group of animal pictures for the children to sort and classify into different groups. How would the children group them? Habitat, number of legs, vertebrates &amp; invertebrates etc? Could you extend this to create an identification key?</li><li>• Measure and record the force needed to move a shoe on different surfaces investigation. Either measure the force of different shoes, or of one shoe on different surfaces – <i>Physics link</i>.</li><li>• Extend the above activity with some persuasive writing. Children can design the ultimate non-slip shoe to be worn around the Sultan’s School classrooms and walkways, which are particularly slippery! Can they use their science knowledge and terminology to help them sell the soles? – <i>English link</i></li></ul> <p>STEAM activity – build a tower using paper and paper / polystyrene plates <a href="https://teachingideas.ca/2018/10/02/stem-activity/">https://teachingideas.ca/2018/10/02/stem-activity/</a> Look at the shapes that are</p>	<ul style="list-style-type: none"><li>• Different liquids (water, juice, milk, paint etc)</li><li>• Cardboard / large paper or various papers (e.g. sugar)</li><li>• Vinegar</li><li>• Bicarbonate soda</li><li>• Balloons</li><li>• Bottles</li><li>• Scales / measuring equipment</li><li>• Pipettes</li><li>• Stopwatches</li><li>• Animal pictures</li><li>• Force meters</li><li>• Tape measures</li><li>• Cola</li><li>• Tea</li><li>• Juice</li><li>• Cups</li><li>• Eggs</li></ul>



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		strongest. Maybe award for highest tower, or strongest tower (when adding weight).	
Key vocabulary	Going Green Link	Integration of technology	
Predict, Observe, Equipment, Measure, Describe, Experiment, Investigate, Safety, Research, Liquid, Solid, Liquid, Gas	Look at the melting of polar ice caps and what effect this will have on wildlife in those areas, and potentially for all wildlife worldwide.	Use of iPads <ul style="list-style-type: none"><li>- Pictures of observations</li><li>- Art apps to design shoes</li></ul>	