



## TSS Primary Science 2021-2022 Year 3 Block 1 & 2 Materials

Block	Unit	Key Targets and Learning Objectives	Key Activities	Key vocabulary
<b>Working Scientifically</b>		<ul style="list-style-type: none"> <li>➤ Can make systematic and careful observations.</li> <li>➤ To make predictions.</li> <li>➤ Can record findings using simple scientific language, drawings, labelled diagrams (partial objective) and tables</li> <li>➤ Can identify differences, similarities or changes related to simple scientific ideas and processes.</li> </ul>		
<b>1 &amp; 2</b>	<b>Materials</b>	<ul style="list-style-type: none"> <li>➤ Year 2</li> <li>➤ Know that some materials occur naturally and other are manufactured.</li> <li>➤ Know how the shapes of some materials can be changed by squashing, bending, twisting and/or stretching.</li> <li>➤ Understand the ideas of flexible and rigid.</li> <li>➤ Explore and describe the way some everyday materials change when they are heated or cooled.</li> <li>➤ Year 3</li> <li>➤ Know that every material has specific properties, e.g. hard, soft, shiny.</li> <li>➤ Sort materials according to their properties.</li> <li>➤ Discuss why materials are chosen for specific purposes on the basis of their properties.</li> <li>➤ Explore materials that float and sink.</li> <li>➤ Understand the need for see-through, cloudy and not see-through materials (transparent, translucent and opaque).</li> <li>➤ Understand the idea of absorbency.</li> <li>➤ Explore how some materials are magnetic but many are not.</li> <li>➤ Investigate the different types of materials that magnets attract</li> </ul>	<ul style="list-style-type: none"> <li>➤ Year 2</li> <li>➤ Sorting materials into natural and man-made.</li> <li>➤ How to change the shape of materials</li> <li>➤ Heating and cooling materials</li> <li>➤ Dissolving materials – soluble and insoluble</li> <li>➤ Year 3</li> <li>➤ Identify different types of materials.</li> <li>➤ Examine, sort and describe objects by their properties.</li> <li>➤ Explain what materials objects are made of and explain why.</li> <li>➤ Testing the relative hardness of materials – scratch testing.</li> <li>➤ Testing materials to see whether they float or sink.</li> <li>➤ Considering what factors may affect the strength of a material – testing bag strength</li> <li>➤ Testing the absorbency of different materials</li> <li>➤ Investigating magnets and seeing where they can be found around the home.</li> <li>➤ Testing materials for magnetic properties.</li> <li>➤ Investigating containers made out of transparent, translucent and opaque materials.</li> </ul>	Natural/Man-made Texture Soluble/Insoluble Dissolve Bend, twist, squash Surface Dent Strong Load Stretchiness Rigid Stable Construct Elastic Float/Sink Transparent Opaque Translucent



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		<ul style="list-style-type: none"><li>➤ Know these types of materials are called magnetic materials</li><li>➤ Understand that magnets can be different shapes and sizes</li></ul>		
			<b>Going Green Link:</b> Sort materials according to those that can be recycled and those that can't. Look at different types of plastic and how to identify them for recycling.	<b>Integration of technology:</b> Research into different types of materials