

## MTP – Science – Spring 1

<b>Topic</b>	What is our school made of? (Science Y2: Traction man)				
<b>N.C Learning Objectives</b>	<ul style="list-style-type: none"> <li>Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses</li> <li>Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.</li> </ul>				
<b>Vocabulary</b>	<b>Suitability</b> The quality of being right or appropriate for a particular purpose.	<b>Squashing</b> Squashing is pushing things closely together.	<b>Bending</b> Bending is changing the shape and direction of something.	<b>Twisting</b> To twist something you move one part clockwise and the other part anticlockwise.	<b>Stretching</b> Stretching is to change shape by pulling it to make it longer or wider.
	<b>LEARNING OBJECTIVE</b>	<b>STICKY KNOWLEDGE FACT</b>	<b>LESSON ACTIVITIES</b>		
<b>Lesson 1</b>	We are learning identify materials	The five most common materials are wood; metal; fabric; plastic and paper	<ul style="list-style-type: none"> <li>Children to focus on five main materials: wood; metal; fabric; plastic and paper</li> <li>Children to identify and explain what different toys are made of</li> <li>Children to investigate how toys are made with a focus on plastic and glass.</li> </ul>		
<b>Lesson 2</b>	We are learning to identify which material objects are made from and why	Objects can be made from different materials which are either man made or natural.	<ul style="list-style-type: none"> <li>Children to identify the different material used to build the school (both inside and out)</li> <li>Discuss why each material is used in a certain location, explore the suitability</li> <li>Discuss why builders use paint on some materials</li> </ul>		
<b>Lesson 3</b>	We are learning to identify the suitability of different materials.	A material can be suitable for different purposes, this means that the material is right for its purpose.	<ul style="list-style-type: none"> <li>Look at the main materials used to construct the school (wood, metal, plastic, glass, brick, rock, paper, cardboard)</li> <li>Children to discuss how the same objects are made from different material e.g a door made from metal and a door made from wood. Children to explore why this is the case.</li> </ul>		

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			<ul style="list-style-type: none"> <li>• Children to discuss and explain the advantages and disadvantages (suitability) of using each material.</li> </ul>
<b>Lesson 4 And lesson 5</b>	<p>We are learning investigate which materials are waterproof</p>	<p>Something that is waterproof does not allow water to pass through it.</p> <p>An absorbent material has small holes in it. When the material come into contact with the liquid it fills the small holes.</p>	<ul style="list-style-type: none"> <li>• Children to carry out an investigation into which material/toys/object from Traction Man are waterproof and not waterproof (one object to represent each material).</li> <li>• Children to investigate the difference between waterproof and absorbent, consider suitability</li> <li>• Children to identify what happens to the materials that are absorbent consider suitability</li> <li>• Children to plan, investigate and record results.</li> </ul>
<b>Lesson 6</b>	<p>We are learning to identify how some materials can be changed</p>	<p>The shape of some materials can be changed by squashing, bending, twisting and stretching.</p>	<ul style="list-style-type: none"> <li>• Children to investigate how different materials can be manipulated e.g. a plastic slide can be twisted as it can be heated up and moulded into shape. Wood can be cut into different shapes and connected together whereas metal needs welding etc</li> <li>• Children to identify different materials that can squashed, stretched, twisted or bent</li> <li>• Children to identify what materials they would use to create a new playground structure and how/if they would manipulate the material and why (suitability)</li> </ul>
<b>Lesson 7</b>	<p>We are learning to identify the properties of materials and their suitability</p>		<ul style="list-style-type: none"> <li>• Children to draw upon taught knowledge from across the unit to explain why our school is made from the different materials</li> </ul>

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