




## Raw and Synthetic Materials Year 3

<p><b>Science Concepts</b></p>	<p><b>Nature</b> Knowing about the natural world</p>  <p>Nature</p>	<p><b>Phenomenon</b> Observing facts and events</p>  <p>Phenomenon</p>	<p><b>The Real World</b> Knowing about scientists and science in our everyday lives</p>  <p>The Real World</p>
<p><b>National Curriculum</b></p>	<ul style="list-style-type: none"> <li>Compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency.</li> </ul>		<ul style="list-style-type: none"> <li>Identifying and classifying</li> <li>Reporting, presenting and communicating data/findings</li> </ul>

<b>Lesson</b>	<b>Learning Intention</b>
<b>1. What is a raw material? (NOA)</b>	<ul style="list-style-type: none"> <li>• Explain what a raw material is</li> <li>• Sort raw materials based on where they come from</li> <li>• Describe the uses of some raw materials</li> </ul>
<b>1. What is a synthetic material?</b>	<ul style="list-style-type: none"> <li>• Explain what a synthetic material is</li> <li>• Sort materials into synthetic and raw materials</li> <li>• Describe the uses of some synthetic materials</li> </ul>
<b>3. How are synthetic materials made from raw materials?</b>	<ul style="list-style-type: none"> <li>• Explain that raw materials change properties when made into synthetic materials</li> <li>• Describe how glass is made from sand</li> <li>• Describe how the properties of sand changes to the properties of glass</li> </ul>
<b>4. How is paper made?</b>	<ul style="list-style-type: none"> <li>• Describe how paper is made from wood</li> <li>• Describe a range of uses of paper</li> <li>• Explain why it is a good thing to recycle paper</li> </ul>
<b>5. What is recycling and why is it important?</b>	<ul style="list-style-type: none"> <li>• Describe a range of uses of paper</li> <li>• Explain why it is a good thing to recycle paper</li> </ul>
<b>6. What paper is best for mopping up spillages?</b>	<ul style="list-style-type: none"> <li>• Plan a test to compare absorbency of different paper</li> <li>• Decide what evidence to collect, consider what might change, what to keep the same and what to measure</li> <li>•</li> </ul>
<b>7. What paper is best for mopping up spillages?</b>	<ul style="list-style-type: none"> <li>• Make comparisons and draw conclusions</li> </ul>
<b>8. What is recycling and why is it important? (NOA)</b>	<ul style="list-style-type: none"> <li>• Describe what the process of recycling involves</li> <li>• Explain that making synthetic materials takes energy</li> <li>•</li> </ul>
<b>9. What is recycling and why is it important? (NOA)</b>	<ul style="list-style-type: none"> <li>• Explain the negative impact of using raw materials</li> </ul>
<b>10. What does it mean to live sustainably? (NOA)</b>	<ul style="list-style-type: none"> <li>• State what sustainability means</li> <li>• Describe ways to live sustainably</li> <li>• Explain some difficulties with living sustainably</li> </ul>
<b>11. Why do we have different kinds of plastic?</b>	<ul style="list-style-type: none"> <li>• Identify properties of different kinds of plastic</li> </ul>
<b>12. Why do we change materials?</b>	<ul style="list-style-type: none"> <li>• Examples of material scientist</li> </ul>
<b>13. Review</b>	<ul style="list-style-type: none"> <li>• End of unit quiz</li> </ul>