

## Year 8 Design & Technology - Polymers Desk Tidy Design Learning Programme 2

<p>The LORIC skill focus for this LP is: ORGANISATION The Moral Virtues focus for this LP are: COMPASSION and HONESTY Compassion - the quality of feeling pity and concern for the sufferings or misfortunes of others. Honesty - the quality of being truthful.</p>		<p><b>Literacy:</b></p> <ul style="list-style-type: none"> <li>Capital letters must be used at the start of sentences and for the first letter of proper nouns</li> <li>Full stops must be used at the end of a sentence</li> <li>Question marks must be used at the end of a question</li> <li>Apostrophes should only be used for possession or omission</li> <li>Days of the week and months must be spelled correctly</li> <li>Key words must be spelled correctly</li> </ul>
<p><b>What will I be learning about in this Learning Programme?</b> The source, categories and types of polymers; the impact of polymers on the environment. The process of thermoforming polymers. Communicating design ideas and applying workshop safety when shaping and forming polymers. How to use a Gantt Chart to plan the stages of manufacture to make a functioning polymer desk tidy.</p> <p><b>Where have I seen this learning before?</b> In Year 7 design &amp; technology you will have used these tools and equipment to make prototypes from timbers, papers &amp; boards and textiles. You will have learnt about the sources of timbers and papers and boards and how they are processed.</p> <p><b>What could I use it for?</b> You can use polymer materials to manufacture products in design &amp; technology over your next 6 years; you will apply your knowledge of polymers in the GCSE Design &amp; Technology exam. You can use hand tools to create polymer items in your everyday life.</p>		
<p><b>In LP2.1, I will know:</b></p> <p>what synthetic polymers are, their source and how they are processed; the environmental and social impact of using polymers to make products.</p>	<p><b>21/10/24 - (WK 2)</b></p> <p><b>Key Vocabulary</b></p> <p>Polymers</p>	<p><b>Homework</b></p> <p>The stages of processing polymers.</p>
<p><b>In LP2.2, I will know:</b></p> <p>the difference between thermoplastic and thermosetting polymers; the different types of polymers, their properties and uses.</p>	<p><b>04/11/24 - (WK 1)</b></p> <p><b>Key Vocabulary</b></p> <p>Thermoplastics</p>	<p><b>Homework</b></p> <p>Interview your desk tidy primary user.</p>
<p><b>LP2 RLW, I will:</b></p> <p>review my learning, recalling and applying key knowledge, and focus on closing any gaps in my knowledge.</p>	<p><b>11/11/24 - (WK 2)</b></p> <p>Revision</p>	<p>Use revision techniques to prepare for the summative assessment.</p>
<p><b>In LP2.3, I will know:</b></p> <p>how to explore the desk tidy context using the 5Ws strategy; how to investigate requirements and record the sizes of stationery.</p> <p>Extended Task.</p>	<p><b>18/11/24 - (WK 1)</b></p> <p><b>Key Vocabulary</b></p> <p>Context</p>	<p><b>Homework</b></p> <p>Research polymer products.</p>
<p><b>In LP2.4, I will know:</b></p> <p>how to communicate my desk tidy ideas using 2D &amp; 3D techniques and annotation; how to test my desk tidy idea through precise card modelling.</p>	<p><b>25/11/24 - (WK 2)</b></p> <p><b>Key Vocabulary</b></p> <p>Annotation</p>	<p><b>Homework</b></p> <p>Working safely in the DT workshop.</p>
<p><b>In LP2.5, I will know:</b></p> <p>how to use a Gantt chart and my initiative to plan the manufacturing stages of my desk tidy; which equipment and material I will be using and will have gratitude for the resources that are provided.</p>	<p><b>02/12/24 - (WK 1)</b></p> <p><b>Key Vocabulary</b></p> <p>Gantt chart</p>	<p><b>Homework</b></p> <p>Risk assessment of tools and equipment.</p>
<p><b>In LP2.6, I will know:</b></p> <p>how templates ensure accuracy when marking out the desk tidy; how to use of a file to smooth the edges of my acrylic body.</p> <p>Extended Task.</p>	<p><b>09/12/24 - (WK 2)</b></p> <p><b>Key Vocabulary</b></p> <p>Template</p>	<p><b>Homework</b></p> <p>Calculating area task.</p>
<p><b>In LP2.7, I will know:</b></p> <p>how to use a coping saw and scroll saw to cut out my acrylic desk tidy head.</p>	<p><b>16/12/24 - (WK 1)</b></p> <p><b>Key Vocabulary</b></p> <p>Wastage</p>	<p><b>Homework</b></p> <p>Wastage manufacturing methods (coping saw and scroll saw)</p>
<p><b>Resources to support learning:</b> The following websites contain extensive revision material and information to increase design &amp; technology subject knowledge: <a href="http://www.technologystudent.com">www.technologystudent.com</a>; <a href="http://www.mr-dt.com">www.mr-dt.com</a>; <a href="http://www.bbc.co.uk/bitesize">www.bbc.co.uk/bitesize</a>.</p>		
<p><b>FFET Award Challenge for this Learning Programme:</b> Interview a primary school pupil to find out their needs and wants for a desk tidy. You can choose how to present your questions and their answers.</p>		

PRT Task 1

PRT Task 2