

Year 8 Design & Technology - Polymers Desk Tidy Design Learning Programme 3

<p>The LORIC skill focus for his LP is: RESILIENCE The Moral Virtues focus for this LP are: RESPECT and JUSTICE Respect - treat others how you would wish to be treated yourself. Justice - our College rules are fair and reasonable.</p> <p>What will I be learning about in this Learning Programme? 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>Where have I seen this learning before? In Year 7 design & technology you will have used these tools and equipment to make prototypes from timbers, papers & boards and textiles. You will have learnt about the sources of timbers and papers and boards and how they are processed.</p> <p>What could I use it for? You can use polymer materials to manufacture products in design & technology over your next 6 years; you will apply your knowledge of polymers in the GCSE Design & Technology exam. You can use hand tools to create polymer items in your everyday life.</p>		<p>Literacy:</p> <ul style="list-style-type: none"> Capital letters must be used at the start of sentences and for the first letter of proper nouns Full stops must be used at the end of a sentence Question marks must be used at the end of a question Apostrophes should only be used for possession or omission Days of the week and months must be spelled correctly Key words must be spelled correctly
<p>In LP3.1, I will know: 06/01/25 - (WK 2)</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>Key Vocabulary</p> <p>Polymers</p>	<p>Homework</p> <p>The stages of processing polymers.</p>
<p>In LP3.2, I will know: 13/01/25 - (WK 1)</p> <p>the difference between thermoplastic and thermosetting polymers; the different types of polymers, their properties and uses.</p>	<p>Key Vocabulary</p> <p>Thermoplastics</p>	<p>Homework</p> <p>Interview your desk tidy primary user.</p>
<p>In LP3.3, I will know: 20/01/25 - (WK 2)</p> <p>how to explore the desk tidy context using the SWs strategy; how to investigate requirements and record the sizes of stationery.</p>	<p>Key Vocabulary</p> <p>Context</p>	<p>Homework</p> <p>Research polymer products.</p>
<p>In LP3.4, I will know: 27/01/25 - (WK 1)</p> <p>how to communicate my desk tidy ideas using 2D & 3D techniques and annotation; how to test my desk tidy idea through precise card modelling.</p> <p>Extended Task.</p>	<p>Key Vocabulary</p> <p>Annotation</p>	<p>Homework</p> <p>Working safely in the DT workshop.</p>
<p>In LP3.5, I will know: 03/02/25 - (WK 2)</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>Key Vocabulary</p> <p>Gantt chart</p>	<p>Homework</p> <p>Risk assessment of tools and equipment.</p>
<p>In LP3.6, I will know: 10/02/25 - (WK 1)</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>Key Vocabulary</p> <p>Template</p>	<p>Homework</p> <p>Calculating area task.</p>
<p>LP3 RLW, I will: 24/02/25 - (WK 2)</p> <p>review my learning, recalling and applying key knowledge, and focus on closing any gaps in my knowledge.</p>	<p>Key Vocabulary</p> <p>Revision strategy</p>	<p>Homework</p> <p>Revise for summative assessment.</p>
<p>In LP3.7, I will know: 03/03/25 - (WK 1)</p> <p>how to use a coping saw and scroll saw to cut out my acrylic desk tidy head.</p> <p>Extended Task.</p>	<p>Key Vocabulary</p> <p>Wastage</p>	<p>Homework</p> <p>Wastage manufacturing methods (coping saw and scroll saw)</p>
<p>Resources to support learning: The following websites contain extensive revision material and information to increase design & technology subject knowledge: www.technologystudent.com; www.mr-dt.com; www.bbc.co.uk/bitesize.</p>		
<p>FFET Award Challenge for this Learning Programme: 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>		

