

Year 8 Design & Technology Desk Tidy Manufacture

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? How to use a range of tools and equipment correctly and safely to finalise the manufacture of your desk tidy. You will also learn about the different forms of polymer forming and moulding methods. In the Electronic Systems project you will learn about systems and their input, process and output. You will also know about the function of electronic components and will create design ideas for a Night Light.</p> <p>Where have I seen this learning before? You will build on your learning from the last Learning Programme in which you were introduced to working with polymers in the D&T workshop. In KS2 design & technology you will have used simple electronic components to make electrical systems in a product.</p> <p>What could I use it for? You can use polymer materials and electronic components 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:</p> <p>how different grades of wet and dry paper can produce a smooth finish; how to use a step drill bit in the pillar drill to create the pen holes for my desk tidy.</p>	<p>06/01/25 - (WK 2)</p> <p>Key Vocabulary</p> <p>Drill bit</p>	<p>Homework</p> <p>Polymer questions to retrieve my knowledge.</p>
<p>In LP3.2, I will know:</p> <p>how to shape my acrylic desk tidy body using a convection oven or strip heater.</p>	<p>13/01/25 - (WK 1)</p> <p>Key Vocabulary</p> <p>Former</p>	<p>Homework</p> <p>Describe how to thermoform safely, using the convection oven and strip heater.</p>
<p>In LP3.3, I will know:</p> <p>how polymer products are manufactured using the injection moulding process; how to apply a decorative finish to enhance its aesthetics for my primary user.</p>	<p>20/01/25 - (WK 2)</p> <p>Key Vocabulary</p> <p>Decorative finish</p>	<p>Homework</p> <p>Describe the injection moulding process.</p>
<p>In LP3.4, I will know:</p> <p>how to use a glue gun safely to assemble the parts of my desk tidy; how to finalise my desk tidy ready for primary user testing and evaluation.</p> <p>Extended Task.</p>	<p>27/01/25 - (WK 1)</p> <p>Key Vocabulary</p> <p>Assemble</p>	<p>Homework</p> <p>Primary user feedback.</p>
<p>In LP3.5, I will know:</p> <p>what all systems consist of - an input, process and output.</p>	<p>03/02/25 - (WK 2)</p> <p>Key Vocabulary</p> <p>Input</p>	<p>Homework</p> <p>Find 3 systems in your home and identify their input, process and output.</p>
<p>In LP3.6, I will know:</p> <p>how to explore the Night Light context; how to communicate my Night Light design ideas.</p>	<p>10/02/25 - (WK 1)</p> <p>Key Vocabulary</p> <p>Primary user</p>	<p>Homework</p> <p>Night light research.</p>
<p>LP3 RLW, I will:</p> <p>review my learning, recalling and applying key knowledge, and focus on closing any gaps in my knowledge.</p>	<p>24/02/25 - (WK 2)</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:</p> <p>why we use diagrams to show how electronic circuits work; the name, symbol and function of the components I will use in my night light circuit.</p> <p>Extended Task.</p>	<p>03/03/25 - (WK 1)</p> <p>Key Vocabulary</p> <p>Circuit</p>	<p>Homework</p> <p>Describe the input, process and output for two systems that use sensors.</p>
<p>Resources to support learning:</p> <p>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>FEET Award Challenge for this Learning Programme:</p> <p>Create a 'user testing' report to evaluate how well your desk tidy works.</p>		

