

## Year 10 GCSE Design & Technology

### Learning Programme 4

<p>The LORIC skill focus for his LP is: INITIATIVE.</p> <p>The Moral Virtues focus for this LP are: INTEGRITY and GRATITUDE.</p> <p>Integrity - Having strong moral principles.</p> <p>Gratitude - Feeling and expressing thanks.</p> <p><b>What will I be learning about in this Learning Programme?</b></p> <p>To understand that templates and jigs are used to manufacture accurately. To know the small-scale timber wastage processes. To know the tools/ equipment and processes used to manufacture polymer products in a workshop and commercially. To know timber and polymer addition and finishing processes. To know timber and polymer deforming and reforming processes. To know the 4 scales of production.</p> <p><b>Where have I seen this learning before?</b></p> <p>You will have developed your knowledge of tools and equipment throughout KS3. You will have worked with timber and polymer materials to make products in the design &amp; technology workshop.</p> <p><b>What could I use it for?</b></p> <p>You will be able to apply your knowledge of materials and processes in your GCSE examination, as well as apply your understanding of the non-examined assessment when you begin your externally set NEA in June of Year 10.</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>In LP4.1, I will know:</b></p> <p>how products are manufactured to different scales of production (7.5a);</p> <p>how designers use templates and jigs to manufacture accurately (7.3aai).</p>	<p><b>10/03/25 - (WK 2)</b></p> <p><b>Key Vocabulary</b></p> <p>Tolerances</p>	<p><b>Homework</b></p> <p>Scales of production.</p>
<p><b>In LP4.2, I will know:</b></p> <p>which timber wastage processes can be used to manufacture the desk lamp in the workshop (7.2ai);</p> <p>my strengths and areas for development from my learning so far.</p>	<p><b>17/03/25 - (WK 1)</b></p> <p><b>Key Vocabulary</b></p> <p>Wastage</p>	<p><b>Homework</b></p> <p>Small scale timber wastage processes.</p>
<p><b>In LP4.3, I will know:</b></p> <p>which timber manufacturing processes are used for large scale production (7.5b);</p> <p>how to apply safe workshop practices to manufacture the desk lamp with accuracy and use my initiative to problem solve.</p> <p>Extended Task.</p>	<p><b>24/03/25 - (WK 2)</b></p> <p><b>Key Vocabulary</b></p> <p>Router</p>	<p><b>Homework</b></p> <p>Large scale production processes - timbers.</p>
<p><b>In LP4.4, I will know:</b></p> <p>how timbers can be joined and finished using a variety of processes (6.2a, 7.2aii);</p> <p>how to apply safe workshop practices to manufacture the desk lamp with accuracy, demonstrating gratitude towards the tools and equipment.</p>	<p><b>31/03/25 - (WK 1)</b></p> <p><b>Key Vocabulary</b></p> <p>Adhesive</p>	<p><b>Homework</b></p> <p>Timber joining and finishing methods.</p>
<p><b>In LP4.5, I will know:</b></p> <p>which manufacturing processes are used to deform and reform timbers (7.2);</p> <p>how to apply safe workshop practices to manufacture the desk lamp with accuracy.</p>	<p><b>21/04/25 - (WK 2)</b></p> <p><b>Key Vocabulary</b></p> <p>Laminating</p>	<p><b>Homework</b></p> <p>Timber steam bending and lamination.</p>
<p><b>In LP4.6, I will know:</b></p> <p>how polymers can be processed in the workshop (7.2a);</p> <p>how to apply safe workshop practices to manufacture the desk lamp with accuracy.</p> <p>Extended Task.</p>	<p><b>28/04/25 - (WK 1)</b></p> <p><b>Key Vocabulary</b></p> <p>Thermoforming</p>	<p><b>Homework</b></p> <p>Manufacturing with polymers in a workshop.</p>
<p><b>In LP4.7, I will know:</b></p> <p>which manufacturing processes are used for large scale production e.g. injection, blow moulding and extrusion (7.5b);</p> <p>how to finalise the manufacture of the desk lamp.</p>	<p><b>05/05/25 - (WK 2)</b></p> <p><b>Key Vocabulary</b></p> <p>Extrusion</p>	<p><b>Homework</b></p> <p>Large scale production processes - polymers.</p>
<p><b>Resources to support learning:</b></p> <p>The following websites contain extensive revision material and information to increase design &amp; technology subject knowledge:</p> <p><a href="http://www.technologystudent.com">www.technologystudent.com</a>;</p> <p><a href="http://www.mr-dt.com">www.mr-dt.com</a>;</p> <p><a href="http://www.bbc.co.uk/bitesize">www.bbc.co.uk/bitesize</a> - OCR Design &amp; Technology.</p>		
<p><b>FFET Award Challenge for this Learning Programme:</b></p> <p>Create revision resources e.g. flashcards to be used to prepare for the Year 10 mocks exams.</p>		

