

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>What will I be learning about in this Learning Programme?</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>Where have I seen this learning before?</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 & technology workshop.</p> <p>What could I use it for?</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>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
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<p>In LP4.1, I will know: 04/03/24 - (WK 1)</p> <p>how products are manufactured to different scales of production (7.5a); how designers use templates and jigs to manufacture accurately (7.3aii).</p>	<p>Key Vocabulary</p> <p>Tolerances</p>	<p>Homework</p> <p>Scales of production.</p>
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<p>In LP4.2, I will know: 11/03/24 - (WK 2)</p> <p>which timber wastage processes can be used to manufacture the desk lamp in the workshop (7.2ai); my strengths and areas for development from my learning so far.</p>	<p>Key Vocabulary</p> <p>Wastage</p>	<p>Homework</p> <p>Small scale timber wastage processes.</p>
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<p>In LP4.3, I will know: 18/03/24 - (WK 1)</p> <p>which timber manufacturing processes are used for large scale production (7.5b); 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>Key Vocabulary</p> <p>Router</p>	<p>Homework</p> <p>Large scale production processes - timbers.</p>
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<p>In LP4.4, I will know: 25/03/24 - (WK 2)</p> <p>how timbers can be joined and finished using a variety of processes (6.2a, 7.2aii); how to apply safe workshop practices to manufacture the desk lamp with accuracy, demonstrating gratitude towards the tools and equipment.</p>	<p>Key Vocabulary</p> <p>Adhesive</p>	<p>Homework</p> <p>Timber joining and finishing methods.</p>
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<p>In LP4.5, I will know: 15/04/24 - (WK 1)</p> <p>which manufacturing processes are used to deform and reform timbers (7.2); how to apply safe workshop practices to manufacture the desk lamp with accuracy.</p>	<p>Key Vocabulary</p> <p>Laminating</p>	<p>Homework</p> <p>Timber steam bending and lamination.</p>
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<p>In LP4.6, I will know: 22/04/24 - (WK 2)</p> <p>how polymers can be processed in the workshop (7.2a); how to apply safe workshop practices to manufacture the desk lamp with accuracy.</p> <p>Extended Task.</p>	<p>Key Vocabulary</p> <p>Thermoforming</p>	<p>Homework</p> <p>Manufacturing with polymers in a workshop.</p>
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<p>In LP4.7, I will know: 29/04/24 - (WK 1)</p> <p>which manufacturing processes are used for large scale production e.g. injection, blow moulding and extrusion (7.5b).</p>	<p>Key Vocabulary</p> <p>Extrusion</p>	<p>Homework</p> <p>Large scale production processes - polymers.</p>
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<p>In LP4.8, I will know: 06/05/24 - (WK 2)</p> <p>which manufacturing processes are used for large scale production e.g. compression moulding and rotational moulding (7.5b); how to finalise the manufacture of the desk lamp.</p>	<p>Key Vocabulary</p> <p>Rotational</p>	<p>Homework</p> <p>Learning review task.</p>
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<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-OCR/Design & Technology.</p>

<p>FFET Award Challenge for this Learning Programme:</p> <p>Create revision resources e.g. flashcards to be used to prepare for the Year 10 mocks exams.</p>
