



## Year 9 Curriculum Grid

# Design & Technology

Year/Term	Unit	Intent
<b>Overall</b>		<p>The Design &amp; Technology Department at Ellesmere Port Catholic High School has a clear vision. That vision is <b>DESIGN</b>.</p> <p><b><u>'Developing Exceptional Students In Gods Name'</u></b></p> <p>We intend to develop our existing community of extraordinary D&amp;T and STEM students who have flourished alongside their department with the unquestionable support of the Design &amp; Technology Teaching Team which has respect, love, faith and hope rooted at its core.</p>
<b>Autumn 1</b>	Baseline testing, Core Skills and Health & Safety. (UPLIFT)	<p>To assess a range of skills, both practical and theory, to determine the starting points of students progressing from KS3.</p> <p>Students will participate in, learn and develop the following:</p> <ul style="list-style-type: none"> <li>• Generic Workshop Health &amp; Safety</li> <li>• Developed introduction to machinery</li> <li>• Developed introduction to basic hand skills</li> <li>• Understanding the purpose of Personal Protective Equipment</li> </ul>
<b>Autumn 2</b>	(UPLIFT) Developing the skills to be a successful GCSE Design Student.	<p>Students will participate in, learn and develop the following:</p> <ul style="list-style-type: none"> <li>• Understanding and practicing wood joint techniques</li> <li>• Sustainability and the 6 R's</li> <li>• Material Properties of hardwood, softwood, manufactured boards, thermosets, thermoplastics, ferrous metals and non ferrous metals.</li> <li>• Understanding the design process and client relationships</li> </ul>
<b>Spring 1</b>	Product Design	<p>Students will participate in, learn and develop the following:</p> <ul style="list-style-type: none"> <li>• Developing client relationships and conducting interviews</li> <li>• Understanding Design &amp; Technology in industry</li> <li>• Using CAD/CAM as a design and manufacture assistant</li> </ul>
<b>Spring 2</b>	Continuation of Product Design	<ul style="list-style-type: none"> <li>• Understanding inclusive design and the 95<sup>th</sup> and 5<sup>th</sup> Percentile</li> <li>• Developing practical skills on specialist machinery (rotational sander, pillar drill, wood lathe etc)</li> </ul>
<b>Summer 1</b>	Architectural Design	<p>Students will participate in, learn and develop the following:</p> <ul style="list-style-type: none"> <li>• Develop an understanding of different types of architecture and their cultural significance (Gothic, Islamic, Ancient Greek, Modern and Neoclassical).</li> <li>• Students will create a practical model and product using these styles as influences.</li> </ul>
<b>Summer 2</b>	Continuation of Architectural Design	<ul style="list-style-type: none"> <li>• Develop a knowledge and understanding of what a scale model is and manufacture a piece in the style of a type of architecture</li> <li>• Develop an understanding of structural design, the design implications and how materials are chosen based on their properties</li> </ul>



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