

# Year 12 DT – Product Design



## Year 12 Product Design Curriculum Information

	<b>Key Question:</b>	<b>Specification:</b>	<b>Skill Focus:</b>
<b>Term 1:</b>	What materials are used in everyday products and what are their properties?	<ul style="list-style-type: none"> <li>• <i>EDXEXCEL PEARSON – Design and Technology</i></li> <li>• <i>Topic 1: Materials</i></li> <li>• <i>Topic 3: Processes, Techniques and specialist tools</i></li> </ul>	<ul style="list-style-type: none"> <li>• Be able to apply a knowledge and understanding of the working properties, characteristics, applications, advantages and disadvantages of everyday materials including wood, metals and polymers as well as smart materials and composites.</li> <li>• Understand the range of processes, applications, characteristics, advantages and disadvantages of the range of manufacturing processes used in industry.</li> </ul>
<b>Term 2:</b>	How are products designed to meet user needs?	<ul style="list-style-type: none"> <li>• <i>EDXEXCEL PEARSON – Design and Technology</i></li> <li>• <i>Topic 5: Factors influencing the development of products</i></li> <li>• <i>Topic 6: The Effects of Technological Developments</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Be able to discuss</i> current and historical technological developments that have had an effect on the work of designers and technologists and their social, moral and ethical impact.</li> <li>• Understand the importance and influence of user centred design in ensuring products are fit-for-purpose and meet the criteria of specifications when designing, making and evaluating</li> </ul>
<b>Term 3:</b>	What to include in my coursework	<ul style="list-style-type: none"> <li>• <i>EDXEXCEL PEARSON – Design and Technology</i></li> <li>• <i>Clear focus on completing the first stages of pupil's coursework portfolio.</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>To choose an appropriate project to meet user needs.</i></li> <li>• <i>To carry out an in depth research and analysis task to inform design decisions.</i></li> <li>• <i>To Write a clear Design Brief and Specification to meet your client needs.</i></li> </ul>

## Year 12 Subject Assessment Information

<b>Assessment</b>	<b>Time/Venue</b>	<b>What will be assessed?</b>
Materials and Processes	<ul style="list-style-type: none"> <li>• <b>In Class</b></li> </ul>	Range of materials and processes covered in Topics 1 and 3.
User Centered Design and Historical Design Movements	<ul style="list-style-type: none"> <li>• <b>In Class</b></li> </ul>	All Units covered so far in course including – Unit 5-6 including drawing techniques and Design Movements.
Practice Exam questions – Mock Exam	<ul style="list-style-type: none"> <li>• <b>TBC - Formal</b></li> </ul>	All work covered so far in Workbooks 1 and 2.

