

# YEAR 11 CURRICULUM PLAN FOR TECHNOLOGY (PRODUCT DESIGN)



TOPIC	KEY LEARNING	ASSESSMENT
<p>Controlled Assessment – Design Brief &amp; Specification</p> <p>Controlled Assessment – Development of design ideas</p>	<ul style="list-style-type: none"> <li>○ Write a clear and detailed ‘Design Brief’</li> <li>○ Write a Design Specification’ with measurable outcomes.</li> </ul> <ul style="list-style-type: none"> <li>○ Be able to generate and developing design ideas</li> <li>○ An iterative approach is required.</li> <li>○ A range of design strategies.</li> <li>○ Clear and effective testing.</li> <li>○ Analysis against Spec identifies further refinements.</li> <li>○ Testing and selection of:                             <ul style="list-style-type: none"> <li>○ Materials</li> <li>○ Components</li> <li>○ Dimensions</li> <li>○ Manufacturing / production</li> <li>○ Finishing</li> <li>○ High level skills evident.</li> </ul> </li> </ul>	<p>Staff have an overview Controlled Assessment progress and pupils have chance to peer assess each other’s work.</p> <p>Self-assessment</p> <p>The level of control for Controlled Assessment tasks allows for them to be completed at home.</p>
<p>Controlled Assessment – Manufacturing a prototype</p>	<ul style="list-style-type: none"> <li>○ Stages of production timeline.</li> <li>○ Completed prototype to schedule.</li> <li>○ Successful high-level making skills.</li> <li>○ Excellent appreciation of materials and components</li> <li>○ High levels of accuracy in outcome.</li> <li>○ Prototype functions perfectly</li> <li>○ Meeting the user needs and wants</li> </ul>	<p>The level of control for Controlled Assessment tasks allows for them to be completed at home.</p> <p>Self-assessment</p>

Controlled Assessment – Manufacturing & Evaluation. Revision	<ul style="list-style-type: none"> <li>○ Analysing and evaluating design decisions and prototypes.</li> <li>○ On-going evaluation and analysis of ideas as they develop.</li> <li>○ Appraising concepts through the iterative process.</li> <li>○ A critical analysis and evaluation of the FINAL prototype.</li> <li>○ User trials / testing and opinions of potential users.</li> <li>○ Reflection on feedback and further development issues identified.</li> <li>○ Detailed suggestions for modifications.</li> </ul>	<p>The level of control for Controlled Assessment tasks allows for them to be completed at home.</p> <p>Self-assessment</p>
Revision	<ul style="list-style-type: none"> <li>○ Be able to confidently answer a variety of appropriate exam questions on Renewable Energy.</li> </ul>	<p>Use the A3 revision sheets in conjunction with the information on the Knowledge Organisers &amp; starter book.</p>
	<ul style="list-style-type: none"> <li>○ Be able to confidently answer a variety of appropriate exam questions on Materials and Manufacturing Systems</li> </ul>	<p>Use the A3 revision sheets in conjunction with the information on the Knowledge Organisers &amp; starter book.</p>
	<ul style="list-style-type: none"> <li>○ Be able to confidently answer a variety of appropriate exam questions on Thermosetting &amp; Thermo forming Plastics</li> </ul>	<p>Use the A3 revision sheets in conjunction with the information on the Knowledge Organisers &amp; starter book.</p>
	<ul style="list-style-type: none"> <li>○ Be able to confidently answer a variety of appropriate exam questions on SMART materials &amp; Composites</li> </ul>	<p>Use the A3 revision sheets in conjunction with the information on the Knowledge Organisers &amp; starter book.</p>
	<ul style="list-style-type: none"> <li>○ Be able to confidently answer a variety of appropriate exam questions on Electronic systems, programmable components and mechanical devices.</li> </ul>	<p>Use the A3 revision sheets in conjunction with the information on the Knowledge Organisers &amp; starter book.</p> <p>GCSE POD</p>