



## Product Design A Level Curriculum Overview

**Rationale: The KS5 curriculum** is a creative and thought-provoking qualification gives our students the practical skills, theoretical knowledge and confidence to succeed in a number of careers. Especially those in the creative industries. They will investigate historical, social, cultural, environmental and economic influences on design and technology, whilst enjoying opportunities to put their learning in to practice by producing prototypes of their choice. Students will gain a real understanding of what it means to be a designer, alongside the knowledge and skills sought by higher education and employers.

Term/Length of Time	Outline Students practical and theoretical knowledge of	Assessment/Teacher Feedback Opportunities	Homework and Literacy resources
Y12 September to December	<p>NEA 50% of the overall GCSE grade – Task is chosen by students and the design concept followed throughout the year.</p> <p>Researching the task – looking at existing products</p> <p>Researching the consumers needs and wants.</p> <p>Theoretical knowledge developed with the completion of the following modules.</p> <ul style="list-style-type: none"> <li>- Materials and applications</li> <li>- Classification of materials</li> <li>- Investigating materials</li> </ul>	<p>NEA will not be formally assessed.</p> <p>Exam style questions will be used to assess student progression after each module is completed.</p>	<p><b>Minimum homework expectation - to be set on G4S</b></p> <p>Students throughout year 12 will be expected to remain in line with deadlines that will be issued for each aspect of their NEA.</p> <p>After a theoretical lesson students should be familiarising themselves with the subject specific terminology. Current news articles will be part of students literacy and homework which will then be used as a discussion topic in lesson.</p> <p>Course specification link - <a href="https://www.aqa.org.uk/subjects/design-and-technology/a-level/design-and-technology-product-design-7552/specification-at-a-glance">https://www.aqa.org.uk/subjects/design-and-technology/a-level/design-and-technology-product-design-7552/specification-at-a-glance</a></p> <p>NEA outline from the exam board – <a href="https://www.aqa.org.uk/subjects/design-and-technology/a-level/design-and-technology-product-design-7552/subject-content/designing-and-making-principles">https://www.aqa.org.uk/subjects/design-and-technology/a-level/design-and-technology-product-design-7552/subject-content/designing-and-making-principles</a></p> <p><b>Optional homework tasks and Literacy resources</b></p> <p><b>Exam preparation</b></p>

			<a href="https://www.bbc.co.uk/bitesize/subjects/zyfb87h">https://www.bbc.co.uk/bitesize/subjects/zyfb87h</a> <a href="https://www.designtechnology.org.uk/for-education/curriculum/">https://www.designtechnology.org.uk/for-education/curriculum/</a>
January to April	<p>NEA – Students will complete design ideas and create models to the task that has been chosen.</p> <p>Some planning will be included to ensure that when students move on to modelling they have the skills and ability to complete the task.</p> <p>Theoretical lesson content will cover –</p> <ul style="list-style-type: none"> <li>- Performance characteristics of materials</li> <li>- Forming and redistribution of processes</li> <li>- Finishes of materials</li> </ul>	Further verbal feedback from staff regarding amendments of students NEA.	<p><b>Minimum homework expectation - to be set on G4S</b></p> <p>Continued work on NEA – design and planning work to be completed for Christmas and the modelling plus the evaluation for the Easter holidays.</p> <p><b>Optional homework tasks and Literacy resources</b></p> <p>Continued examination revision.  <a href="https://revisionworld.com/gcse-revision/design-technology/gcse-design-and-technology-past-papers-0/aqa-gcse-design-and-technology-past-papers">https://revisionworld.com/gcse-revision/design-technology/gcse-design-and-technology-past-papers-0/aqa-gcse-design-and-technology-past-papers</a></p>
April through to December of Y13	<p>Students will begin the modelling of their design possibly making alterations and alternative models as they work.</p> <p>A final evaluation will be the completion of the NEA aiming for students to complete a fully proposed and completed design task.</p> <p>Theoretical lessons will cover –</p> <ul style="list-style-type: none"> <li>- Modern and industrial processes</li> <li>- Computer design and manufacturing</li> </ul>	<p>Mock exams will provide +teacher feedback on theoretical progress.</p> <p>Students will receive teacher feedback throughout the course regarding the success of their NEA.</p>	<p><b>Minimum homework expectation - to be set on G4S</b></p> <p><b>Exam revision and practice examination papers –</b>  <a href="https://www.bbc.co.uk/bitesize/examspecs/zby2bdm">https://www.bbc.co.uk/bitesize/examspecs/zby2bdm</a></p> <p><b>Optional homework tasks and Literacy resources</b>  <a href="https://www.bbc.co.uk/bitesize/examspecs/zby2bdm">https://www.bbc.co.uk/bitesize/examspecs/zby2bdm</a></p>

	<ul style="list-style-type: none"> <li>- Requirements for product design and development</li> <li>- Health and safety</li> <li>- Design for manufacturing, maintenance, repair and disposal</li> </ul>		
Y13 January to April	<p><b>Exam preparation and Revision –</b> Exam is 50% of their final A Level grade. Students will use their lesson time to work through exam style questions from past papers. They will have revision lessons on the course content to ensure they are exam ready.</p>		<p><b>Lots of exam papers are available via the AQA website –</b>  <a href="https://www.aqa.org.uk/subjects/design-and-technology/a-level/design-and-technology-product-design-7552/assessment-resources">https://www.aqa.org.uk/subjects/design-and-technology/a-level/design-and-technology-product-design-7552/assessment-resources</a>   <a href="https://www.youtube.com/watch?v=mKOqN011SkY">https://www.youtube.com/watch?v=mKOqN011SkY</a></p>