

Year 9– Product Design Curriculum

Due to the facilities and equipment, you will complete the other projects at different points in the school year.

Words in italics won't be on the website.	What will I learn? <i>What topics, knowledge and skills do we cover?</i>	How will I learn it? <i>What lesson activities and learning and assessment strategies are used? Assessment will ensure that students have gained the knowledge by the relevant endpoint.</i>	Why is it important that I learn this? <i>What is the purpose of learning this knowledge and skills? (This will link to the curriculum ambition.)</i>	Why am I learning this now? <i>How does this build on prior learning (inc.KS2)? How does it support future learning in the curriculum (inc. on to A level)? How does it connect with other subjects where relevant?</i>
Year 9 Half Term 1 and 2	<p>Students will have an introduction to the year and will complete a design challenge to inspire and encourage students to think like designers.</p> <p><u>Mini NEA</u> When studying Product Design for GCSE, students will be given a contextual challenge from the exam board which is the framework for their project.</p> <p>We have created a slimmed down version which allows students to learn and understand how the NEA is ran. They will be given a contextual challenge from a</p>	<p>Students will complete a range of design activities and work in small groups as part of their discussions.</p> <p><u>Mini NEA</u> You will be shown a range of design strategies and examples from previous years which should inspire you with your own ideas.</p> <p>You will learn the following:</p> <ul style="list-style-type: none"> • Task analysis – how to identify your target audience. • Writing a specification. • Design ideas – designing collaboratively. • Final Design. 	<p>The design activities will give students an insight to how the year will look. The health and safety tasks are important for students to understand the purpose of health and safety and its implications.</p> <p><u>Mini NEA</u> By going through a mini NEA it will give you a really good flavour of what Product Design is like at GCSE.</p>	<p>Builds on prior knowledge from year 7 and by understanding key health and safety supports knowledge during each lesson.</p> <p><u>Mini NEA</u> This project will give you the skills and understanding so that when you are in Year 10/11 you will know what is involved in the NEA.</p> <p>Even if you do not take Product Design for GCSE, you will understand a real world problem and design and model ways in which they can be solved.</p>

	previous year and design and model an outcome.			
Year 9 Half Term 3 and 4	<p><u>Mini NEA</u> Using their findings from the previous term, students will complete a model of the final design idea and evaluate this.</p> <p><u>Biomimicry Lamp</u> Students will begin a new project based on a lamp inspired by Biomimicry. Students will complete research-based tasks, come up with a specification and design ideas before beginning to make.</p>	<p>Students will learn this through the understanding of modelling materials and watching teacher demonstration of how to use materials and equipment e.g. craft knives.</p> <p>This will be done through a range of activities including recall from previous projects.</p>	<p>It is important to learn this so that students understand what is included at GCSE.</p> <p>So that you understand what is to be included in your lamp and understand the iterative design process.</p>	<p>Students learn this in year 9 to help prepare them for their GCSE choices.</p> <p>Students learn this now so that they can begin to visualize their design and understand the process in how to make it.</p>
Year 9 Half Term 5 and 6	<p><u>Biomimicry Lamp</u> Students will make and evaluate their lamp.</p>	<p>Recall from previous projects and teacher demonstrations.</p>	<p>This is where you will learn how to make your lamp.</p>	<p>To create successful outcomes.</p>

