

Year 11 Product Design Overview

Unit	Duration (lessons)	Learning Objectives/Outcomes
<p>Controlled Assessment</p> <p>Research & Design and development of ideas</p>	14	<ul style="list-style-type: none"> • Research design brief and select a variety of sources to help research the task. Analyse findings and produce a design criteria suitable for their chosen client • Analyse existing products to gain knowledge on how other designers have solved the problem • Using a planned design strategy and inspiration, create imaginative ideas using a variety of communication & modelling skills, including CAD CAM. Continue to test, experiment & develop ideas to make improvements on your prototype • Select appropriate materials & components based on their properties. Demonstrate technical knowledge with regards to how materials are processed, worked & finished. Consider how different materials impact on the world's natural resources and justify why your final idea is the most suitable • Continue to recap on theory covered in Y10 to improve exam performance. All Y11 student have been issued with theory & work booklets
<p>Controlled Assessment</p> <p>Final Practical</p>	14	<ul style="list-style-type: none"> • Finalise plans (2D &3D CAD drawings) and produce manufacturing specification. Consider quality checkpoints to ensure work is made to high standard • Use appropriate marking out methods and specialist tools & equipment to create final prototype, including CAD CAM • Work efficiently, safely and with precision to produce a high quality outcome • Involve the client to test final prototype and analyse how well your final idea meets their needs. Discuss possible improvements and complete final evaluation
<p>Exam revision & preparation</p>	8	<ul style="list-style-type: none"> • Research exam "theme" and practise possible responses to design section • Develop confidence in answering "long" questions • Develop exam technique in order to maximise marks on the paper • Be able to manage "time" in order to complete all questions effectively