

# Year 11 Product Design Medium Term Plan

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