



Subject	Year	Specialism
Design and Technology	Year 13	Product Design

Project

A Level NEA Project

Content (Intent)

Prior Learning: GCSE NEA and Y12 Mock NEA project

Students now need to plan and make their final product using a range of materials and processes within the department. They must first produce a design specification that sets out key dimensions and material choices. They then have dedicated workshop sessions to complete their final product (prototype). Once the product is complete it will be evaluated with the client and final feedback gathered to help suggest further improvements to the final design. The assessment objective for this section is **Development of design prototypes** (AO2 – 25 marks).

Future Learning – D&T theory for exam prep. Degree courses in Engineering and Design/Apprenticeships

How will knowledge and skills be taught (Implementation)	How will your understanding be assessed & recorded (Impact)
<ul style="list-style-type: none"> • Manufacturing specification – final CAD images with realistic textures, orthographic drawing with tolerances and dimensions, cutting list and parts drawings. • Manufacturing plan – quality control and quality assurance points added to flow chart of making with clear stages highlighted. • Manufacturing Diary – steps of making with photographs – Health and safety considerations and risk assessments, Quality Control steps and development annotations added. 	<p>Assessment</p> <p>Student work is marked at key intervals to ensure good progress. Verbal feedback as well as self/peer assessment is used during lessons. A more formal assessment is carried out at the end of this project section. Detailed general feedback is given so that students understand the level at which they are working and how to improve.</p> <p>Main areas of assessment:</p> <ul style="list-style-type: none"> • Development of design prototypes (AO2 – 25 marks)

How can parents help at home?

Parents and carers can ask to view their child's work and offer feedback on their design ideas. Students will need client feedback throughout the project so it is great to get parents involved.

Helpful further reading/discussion (including Reading and Vocabulary Lists)

Reading	Vocabulary	Careers Links
<p>A Level AQA Revision Notes Text Book Balcarras Product Design Pages https://www.technologystudent.com/ We have many product design books available in the department so please encourage your child to come and have a look!</p>	<p>Manufacturing specification Orthographic drawing Tolerance Quality control Quality assurance Quantitative Qualitative</p>	<p>Product Design Graphic Design Furniture Design Careers in Engineering (Design Engineering, Mechanical Engineering Project Management Art and Design careers</p>