



Edexcel Design & Technology - Product Design (9DT0)

Unit number and title	Assessment information
<p>Component 1: Principles of Design and Technology</p> <p>Paper code (9TD0 / 01)</p> <p>Written examination</p> <p>50% of overall qualification</p> <p>120 marks</p>	<p>The unit is assessed through a 2 hour 30 minute examination paper set and marked by Edexcel in the Year 13.</p> <p>The paper will be a question and answer booklet and all questions in the paper are compulsory.</p> <p>The paper will consist of short-answer and extended-writing type questions and will be based on the following topic areas:</p> <ul style="list-style-type: none"> • Topic 1: Materials • Topic 2: Performance characteristics of materials • Topic 3: Processes and techniques • Topic 4: Digital technologies • Topic 5: Factors influencing the development of products • Topic 6: Effects of technological developments • Topic 7: Potential hazards and risk assessment • Topic 8: Features of manufacturing industries • Topic 9: Designing for maintenance and the cleaner environment • Topic 10: Current legislation • Topic 11: Information handling, Modelling and forward planning • Topic 12: Further processes and techniques.
<p>Component 2: Independent Design and Make Project</p> <p>Paper code: (9DT0 / 02)</p> <p>Non-examined assessment</p> <p>50% of overall qualification</p> <p>120 marks</p>	<p>This unit is internally set and marked by the centre and externally moderated by Edexcel.</p> <p>Students will produce a substantial design, make and evaluate project which consists of a portfolio and a prototype.</p> <p>The portfolio will contain approximately 40 sides of A3 paper (or electronic equivalent) There are four parts to the assessment:</p> <p>Part 1: Identifying and outlining possibilities for design Identification and investigation of a design possibility, investigation of client/end user needs, wants and values, research and production of a specification</p> <p>Part 2: Designing a prototype Design ideas, development of design idea, final design solution, review of development and final design and communication of design ideas</p> <p>Part 3: Making a final prototype Design, manufacture and realisation of a final prototype, including tools and equipment and quality and accuracy</p> <p>Part 4: Evaluating own design and prototype Testing and evaluation</p>



Pre course material for A Level Design & Technology - Product Design

Students wishing to study the subject at A Level should look through the information available on the Edexcel website to familiarise themselves with the specification:

<https://qualifications.pearson.com/content/demo/en/qualifications/edexcel-a-levels/design-technology-product-design-2017.html>

Students should equip themselves with appropriate materials for the course, as a guide these consist of:

- Set of drawing pencils
- Set of water colour pencils
- Assorted coloured twin nib coloured marker pens
- Variety of black liner pens, e.g. fine liner, broad liner
- Folder to keep all theory work organised
- Lined pad
- A4 and A3 plain pad
- Appropriate word processing software (E-portfolio will be produced on Powerpoint)
- Maths set

Pearson's have not yet created a textbook for their new A Level, they have advised that students purchase the two text books below which cover the majority of the new specification. Textbooks are NOT provided by the school, and it is advised that all students purchase these books in time for September.

Edexcel A Level Design and Technology Product Design: Resistant Materials Technology ISBN 978-0-435757-78-6

Edexcel A Level Design and Technology Product Design: Graphic Products ISBN 978-0-435757-79-3





Pre course material for A Level Design & Technology - Product Design

Project Preparation

During your first weeks of the course you will be concentrating on Drawing Techniques, one of the tasks requires you to bring in an object from home that you can disassemble and draw. Examples could include: torches, old remote controls and pens etc. You will need to create an exploded drawing of this product so the more complex the item the more difficult the task will be, it is essential that the product you use has multiple parts.

There are 2 main practical projects in your first year that will help develop your skills. These include:

Design and Make a pair of 'Salad Servers' using Laminating
Design an Architectural model of a Bus Shelter

You should spend some time over the 6 weeks holidays collecting images that may inspire you whilst completing the projects above. Images of existing products. Look for an architect/artist whose style interests you. You should collect the images on a Powerpoint presentation.