



**Subject: DESIGN—PRODUCT DESIGN**  
(Graphics with Materials Technology)

**Exam Board: Edexcel**

**Levels available: AS (1 Year) and A2 (Additional 2nd Year)**

**Subject Leader: Mr N Jones**

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## Course Information:

### \* What do I need to know or be able to do before choosing this subject?

To study Design—Product Design, you need a minimum GCSE Grade C in Resistant Materials, Electronic Products, Technology or Graphic Products. You need a real interest in Design issues, enjoying challenge, solving problems and analysing the work of other designers.

### \* What does the course consist of and how will I be assessed?

#### AS (Advanced Subsidiary) Specification

This is the first half of the full A level course. If you and your teacher agree that it is best for you, you can take the AS level on its own during or at the end of Year 12. The final grade will count towards entry to Further/Higher Education.

The AS level is made up of two Units:

#### **Unit 1: Product Development**

**50% of AS or 25% of A2**

This unit is the 'design and make' activity. Students select their own context, from which they must design and make a graphics with materials technology product that meets the original context/need.

The product must conform to the following definition:

#### **Definition**

1. A graphics with materials technology project must incorporate the following:  
a 2D element developed from traditional and modern graphics media, for example graphic artwork, advertising, packaging nets, etc a high quality presentation drawing (to a client), for example appropriate drawing of a building in its environment.

#### **Linked to:**

2. A 3D element including concept/prototype block models, architectural/interior design models, etc.

#### **Showing evidence of:**

3. At least ONE resistant material in the 3D element, as defined in Unit 2: Knowledge and Understanding of Product Design, for example woods, metals and plastics.

#### **Unit 2: Knowledge and Understanding of Product Design**

**50% of AS or 25% of A2**

Unit 2 will be assessed through an examination set and marked by Edexcel

There will be a 2 hour examination paper.

The examination will be available in the Summer of each examination series.

The paper will be a question and answer booklet.

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## **Course Information:**

### ***The ADVANCED LEVEL (AS + A2) Specification***

The full advanced level qualification is made up of the 2 AS Units plus 2 more Units studies at A2 level. If you decide to continue with the second half of the course in Year 13 you will study the following additional Units:

#### **Unit 3: Further Study of Product Design** **25% of A2**

Unit 3 will be assessed through an examination set and marked by Edexcel. There will be a 2 hour examination paper. The examination will be available in the Summer of each examination series. The paper will be a question and answer booklet.

#### **Unit 4: Commercial Product Development** **25% of A2**

This unit is the 'design and make' activity. Students identify a client/user group from which they must design and make a graphics with materials technology product that meets the original need. They should liaise with their client/user group to develop a commercial product.

The product must conform to the following definition:

#### **Definition**

A graphics with materials technology project must incorporate the following:

1. A 2D element developed from traditional and modern graphics media, for example graphic artwork, advertising, packaging nets, etc; a high quality presentation drawing (to a client), for example appropriate drawing of a building in its environment.

#### **Linked to:**

2. A 3D element, including concept/prototype block models, architectural/interior design models, etc.

#### **Showing evidence of:**

3. At least one resistant material in the 3D element, as defined in Unit 2: Knowledge and Understanding of Product Design, for example woods, metals and plastics.

### **\* How could I develop Key Skills by doing this course?**

As well as covering designing and making skills, the AS/A2 courses will enable you to develop key skills, You will need to keep evidence of this work in a Portfolio for assessment later if you wish to gain a Key Skills qualification. During this course examples of key skills could include.

**Communication:** eg making a presentation to the group about your design produce ideas.

**Application of Number** eg making calculations about dimensions.

**Information & Communication Technology** eg using CAD/CAM, word processing the study.

**Improving own learning & performance** eg reviewing unit progress and setting new targets.

**Problem solving** eg producing a new solution to a design and make challenge.

**Working with others** eg discussing and sharing your product ideas in group discussion.

### **\* What could I go on to do after the course?**

D & T: Product Design can lead to a wide variety of Higher Education courses, eg Design courses, Business Management and Engineering. The problem solving and inter-personal skills that you should have developed whilst following the course, in addition to the qualification, are all much sought after by employers.