



Post 16 Prospectus: DESIGN & TECHNOLOGY

(Product Design 3D Design)

Advanced Subsidiary (AS) & Advanced Level (A)

Examining Board: AQA

INTRODUCTION

The product design specification is a creative and thought-provoking qualification which gives students the practical skills, theoretical knowledge and confidence to succeed in a number of careers. Especially those in the creative industries.

They will investigate historical, social, cultural, environmental and economic influences on design and technology, whilst enjoying opportunities to put their learning in to practice by producing products of their choice.

3D Product Design is intended to reflect the wide-ranging activities of professional designers and a wide range of materials. Project and coursework will contain significant graphic elements; such as coursework presentation, sketching, CAD and modelling. All project work requires a functioning three dimensional outcome.

This course is best suited to dedicated, creative and hardworking students from the 3D materials based Design and Technology GCSE courses.

AIM

3D Product Design offers you an opportunity to gain satisfaction and a positive experience working with a variety of materials. The practical problem solving processes in this course will require and develop independent learning, creativity and innovation.

You are encouraged to:

- Develop and maintain your own innovation, creativity and design and technology capability, to overcome constraints and to produce high quality products;
- Develop an understanding of the influences of the processes and products of design and technology activity from a historical perspective and in current practice;
- Apply understanding and skills of design production processes to a range of technological activity and develop an understanding of industrial practices;
- Use ICT to enhance your design and technological capability;
- Develop critical evaluation skills in technical, aesthetic, economic, environmental, social and cultural contexts;
- Develop as discerning consumers the ability to make informed choices.

COURSE CONTENT

AS Level:

Written exam paper 1: A mixture of short answer and extended response 1.5 hours; 80marks, 50% of AS Level.

Non-exam assessment (NEA)

Practical application of technical principles, designing and making principles.

Single design and make project. Context set by AQA; 80marks; 50% of AS Level.

A' Level:

Written exam paper 1: A mixture of short answer and extended response. 2.5 hours; 120marks, 30% of AS Level.



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Written exam paper 2: A mixture of short and extended response questions.

Section A: Product Analysis 30 marks; up to 6 short answer questions based on visual stimulus of product(s).

Section B: Commercial manufacture- 50marks

Non-exam assessment (NEA)

Practical application of technical principles, designing and making principles.

Substantial design and make task; 100marks; 50% of A' Level.

SUBJECT SPECIFIC ENTRY REQUIREMENTS:

Minimum 5 GCSEs at Grade 4+ to include Grade 4+ in a Design subject.

This course can lead to a variety of higher education and career opportunities including:

Teaching Product Design, Interior Design, Graphic Design, Architect, Manufacturing, Engineering, CAD/CAM Operation, Structural Engineering.

STUDENT SUPPORT

Individual approach to target setting and verbal guidance.

Personalised feedback at assessment points and for key tasks.

Additional time and availability of the departmental specialist facilities and staff.