Design and Technology - Product Design

Qualification A level   **Awarding body: AQA (7752)**

What are the entry requirements
In addition to the general entry requirement for the Sixth Form, the minimum
requirement for the course is a GCSE grade 6 from a Design and Technology subject.

How long does this course last?
2 years

How many hours of self-study will be required?
Students will be expected to apply 60 minutes self-study time per 1 hour lesson.

How is this course delivered?
Year 1: 9 periods over 2 weeks.
Year 2: 10 periods over 2 weeks

Subject content
1. **Technical principles**
2. **Designing and making principles**

- How to develop initial design solutions, develop, test and trial working models and prototypes
- Develop and sustain imagination, innovation and flair when working with concepts and materials
- Develop an understanding of contemporary design and technological practices and consider the uses and effects of new technologies and modern materials
- Develop thinking skills, financial capability, enterprise and entrepreneurial skills

Students studying for the A level will build on the skills developed in the first year of the course. The major project coursework provides students with the opportunity to undertake a detailed design and make task tailored to the individual interests of the student.

The project context entails a wide range of skills:
- primary and secondary research
- analysis
- generation of a detailed specification
- idea development
- communication skills
- CAD
- manufacturing techniques
- evaluation

How will I be assessed?
Paper 1 – Technical principles

Written exam: 2 hours and 30 minutes
120 marks
30% of A- level
Questions

Mixture of short answer and extended response

Paper 2- Designing and making principles
Questions

Mixture of short answer and extended response

Written exam: 1 hour and 30 minutes
80 marks
20% of A- level

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

Section B:
Commercial manufacture: 50 marks
Mixture of short and extended response questions

Non-exam assessment (NEA)
What's assessed?
Practical application of technical principles, designing and making principles

How is it assessed?

Substantial design and make project
100 marks
50% of A-level
Evidence
Written or digital design portfolio and photographic evidence of final prototype.

What materials will I have to provide?
Students will require a 0.5mm black fine liner pen. The Technology Faculty will provide the first £10 for materials in Year 12 and £20 in Year 13; students will be required to make up the financial difference should their project exceed this amount. Students will also be required to purchase the AQA Design and Technology: A Level text book (Hodder education)

What can I do after this course?
After AS you can do A2 Product Design course; employment in the Design field; relevant University courses; accredited point score towards UCAS applications.

After A-level, you can do a Design related degree courses, for example; architecture, teaching, graphics design, product design, automotive design, furniture design etc. Accredited point score towards UCAS applications.

What careers would this course be useful for?
Teaching, architecture, product design, graphical design, project management, aeronautical/ automotive design, careers that require sound project management/analytical skills, CAD

Here are some examples of careers in this area of interest:
CAD Draughtsperson
Design Engineer
Product Designer

Who can I contact for more information?
Mr G Fallon
Mr A Mc Neil
Mr S Bown