

# Design & Technology

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GCSE Design and Technology provides you with the opportunity to develop your knowledge and understanding of the design process whilst refining and learning a wide range of modern practical and creative skills. Creativity and flair is a fundamental part of Design and Technology. You are encouraged to use innovation and imagination to design and make products or prototypes that solve real world problems, considering your own and others' needs, wants and values.

## **Aims:**

- Be able to design and manufacture using a wide range of CAD/CAM.
- Understand the responsibility that designers have in society and to the environment.
- Develop skills such as productivity, resilience, project-management and resourcefulness.
- Engage in a broad range of projects based upon design, architecture & engineering.
- Design and make quality products that will use most of the materials specified in the specification, making use of a wide range of design processes. This will allow you to enhance your practical skills and develop a greater appreciation of the characteristics of a variety of materials and creative principles.
- Learn all the various technical aspects of the subject so that you can converse at an appropriate level with other experts in this field.

## How will I be assessed?

### **Written Examination unit: 50%: 2 hours: 100 marks**

The examination unit will assess your technical knowledge and understanding of design principles. This will be in relation to your understanding of modern materials and manufacturing processes as well as testing their creative and design/communication skills.

### **Non-examination unit: 50%: 35 hours (class time approx.): 100 marks**

The non-examination unit (NEA) will begin in Year 11 requiring you to design and make products and prototypes of high quality based upon a specific design brief provided by the exam board. The experience gained from managing extended project work and solving technical problems creatively is highly transferable.

## Further Information

Studying a GCSE in Design & Technology, although creative and expressive, will allow you to apply and reinforce your learning in core subjects, such as Mathematics and Science.

Design and Technology is a pathway to careers in *Engineering, Architecture, the Creative arts, Product & Industrial Design*.

Exam Board: AQA 8552