

# GCSE DESIGN & TECHNOLOGY

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## What Will I Be Studying?

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Students will follow an intensive course in product analysis, design experimentation and the production of high-quality products using a variety of techniques, including the use of wood, plastics, metals, composites and programmable components.

They learn about manufacturing techniques and the influences on the design of products as well as the anthropometric and ergonomic details required in making the design comfortable and easy to use.

In order to solve relevant design problems, the students use CAD programmes to experiment with form and proportion to realise detailed products for a new age.

You will look in depth at the work a range of contemporary designers.

You will also be studying how to incorporate electronic components and PIC controllers into design solutions.

Please use the link to access the detailed specification for this course:

<https://www.eduqas.co.uk/media/25tlhbw/gcse-design-and-technology-specification.pdf>

All theory is taught where it is required within the year's coursework design and make tasks.

## How Will I Be Assessed?

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Pupils are assessed regularly. Diagnostic monitoring will take place twice per half term. Controlled Assessment is worth 50% of the final grade. This will be a sustained design and make task, based on a contextual challenge set by Eduqas, assessing candidates' ability to:

- Identify, investigate and outline design possibilities
- Design and make prototypes
- Analyse and evaluate design decisions and wider issues in design and technology

This is made up of a design portfolio of 15 A3 pages, with a design focus and a practical outcome. The exam is 2 hours long and worth 50% of the final grade.



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## Who Would Enjoy This Course?

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Students who would enjoy this course would have the following attributes:

- The ability to draw and render to a good standard
- Be able to work independently in a workshop environment
- Be able to think outside the box and have the ability to solve problems logically
- Have a high level of numeracy

## How Will This Course Help Me In The Future?

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Design and Technology at GCSE, allows students to access Product Design A-Level. Product Design leads to an extremely high level of design-based degrees, including all strands of architecture and engineering, product design and construction.

Students will develop their research and analytical skills to undertake several research-based activities, leading to a Design Brief and Specification.

You will develop your communication skills through a range of media, your ability to work independently and solve problems to a high standard.