

Design and Technology (GCSE)

Information from the exam board can be found [here](#).

Grades awarded: 9 – 1

Why study this subject?

Studying GCSE Design and Technology prepares students to participate confidently and successfully in an increasingly technological world. Students will gain awareness of wider influences on engineering including historical, social, cultural, environmental and economic factors. The GCSE course allows students to study core technical and designing and making principles, including a broad range of design processes, materials techniques and equipment. They will also have the opportunity to study specialist technical principles in greater depth.

What will I study in this course?

- ▶ A range of practical skills.
- ▶ Hand drawing skills.
- ▶ Computer Aided Design (CAD) skills.
- ▶ A range of materials.
- ▶ A range of Engineering processes.
- ▶ An understanding of how products are manufactured.



How will I be assessed?

The course is assessed by coursework (50%) and examination (50%). For the coursework component, you will follow the design brief to research, design, develop, make and evaluate a product. The product is determined by the exam board. This project is started at the end of Year 10 and is completed at the end of the Spring Term in Year 11. The examination component is based on the knowledge you have acquired whilst studying the course. The exam is taken at the end of Year 11.



What will this qualification lead to?

GCSE Design and Technology can lead to A Level Product Design (offered at The King's Academy Sixth Form) or a range of vocational engineering courses. The GCSE course also covers the skills and knowledge required as an introduction to the vast range of engineering careers available. Many of our past students have continued their learning on engineering based university degree courses, Level 3 courses at other Sixth Forms and work-based apprenticeships.

How is the course structured?

	Autumn Term	Spring Term	Summer Term
Year 9	Bottle Opener Project Clock Project – Focus on wood joints	Solidworks Project – How to use this professional CAD software	Passive Speaker Project – A focus on following the design process to make a product
Year 10	Coat Hook Project Start of Exam Topics	Bench Project Continue with Exam Topics	Start of GCSE Coursework Continue with Exam Topics
Year 11	Continue with Coursework Continue with Exam Topics	Continue with Coursework Continue with Exam Topics	Revision & Examinations

For more information, contact: Mr Donnelly (Head of Engineering)

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