

This course will build on the knowledge, understanding and skills you have learned throughout Key Stage 3 in Design Technology. Design and technology will enable you to understand and apply the design process through exploring, creating and evaluating a range of outcomes. You will be able to use creativity and imagination to design and make functional prototypes that solve real and relevant problems, considering your own and others' needs, wants and values. Design technology will provide opportunities for you to apply knowledge from other disciplines, including mathematics, science, art and design, computing and humanities.

What skills are needed for this course?

- A creative, enquiring mind which likes to solve problems
- An ability to plan and work to deadlines
- Enthusiasm and commitment
- The ability to be able to discuss and write about design and the relevant materials

The course aims to:

- Guide students to develop and strengthen their skills through their coursework
- Develop knowledge, skills and understanding of a range of materials and construction methods
- Provide the students with a range of drawing skills both using IT and by hand
- Give an understanding of the environmental impact of producing a product, how previous designers can influence their designing, understand how the needs of society need to be taken into account when designing.
- Allow the students to become much more independent and confident in the creative process

Coursework:

Substantial design and make task Non-Examined Assessment (30-35 hours approx.) - 100 marks (worth 50%)

Examination:

2 hour written examination 100 marks (worth 50%)

Progression Pathways to further and higher education:

Post GCSE paths could include:

- A level Design and Technology
- Technical and Applied (Vocational) Qualifications, such as; Building, Construction, Design, Engineering, Manufacturing
- Apprenticeships, in areas such as; Manufacturing, Graphic Design, CAD, Engineering, Planning

Beyond these courses you could go onto study a degree course such as Architecture, Design (including Product, Industrial, Materials Science, Graphics, Furniture), Engineering (including mechanical, aerospace, electrical etc.)

Career Opportunities:

- Many exciting careers in Design, Manufacturing or Engineering require the practical and problem solving skills that D and T provides and the demand for people in these areas of work is growing fast:
- Product Design, Jeweller, Architecture, Model Maker, Automotive Design, Ergonomics, Teaching etc.