

# Design & Technology GCSE

Number of Exams:

1

Controlled Assessments:

1

## What are the aims of this course?

GCSE Design and Technology prepares students to participate confidently and successfully in an increasingly technological world. Students will gain awareness and learn from wider influences on Design and Technology including historical, social, cultural, environmental and economic factors. Students will get the opportunity to work creatively when designing and making and apply technical and practical expertise.

Our GCSE 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 working with wood, metal, plastics and electronics.

## What will I learn?

In order to make effective design choices students will need a breadth of core technical knowledge and understanding that consists of:

- new and emerging technologies
- energy generation and storage
- developments in new materials
- systems approach to designing
- mechanical devices
- materials and their working properties
- Diverse collection of design and make projects, working with a wide range of materials.
- properties;
- commercial and industrial practices within the chosen areas industries;
- career opportunities in the sector.

## Progression and Career Opportunities

The skills and knowledge gained will allow learners to progress to a wide range of courses in both general and vocational qualifications. It is a particularly good preparation for an A-level in Design and Technology and Product Design, related level 3 vocational qualifications, or an apprenticeship in a related area of employment. This qualification prepares learners by developing an in depth knowledge of wood, plastic and metal based materials and their practical use within the materials industry. Learners will also develop valuable transferable skills in teamwork and communication that will be of value to them no matter what career they choose to follow.

## Further Information

DT roles and employment: Designer, Product designer, tool maker, plumber, pattern maker, carpenter/ joiner, quality control manager, metal fabricator, CNC operator, architectural welder, welder, furniture maker, production manager, jewellery maker.

### For further information please contact:

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## Course Outline

Unit Titles	Content	% Unit is Worth
Paper 1	What's assessed <ul style="list-style-type: none"> <li>• Core technical principles</li> <li>• Specialist technical principles</li> <li>• Designing and making principles</li> </ul> In addition: <ul style="list-style-type: none"> <li>• at least 15% of the exam will assess maths</li> <li>• at least 10% of the exam will assess science.</li> </ul>	How it's assessed <ul style="list-style-type: none"> <li>• Written exam: 2 hours</li> <li>• 100 marks</li> <li>• 50% of GCSE</li> </ul>
Coursework	What's assessed <p>Practical application of:</p> <ul style="list-style-type: none"> <li>• Core technical principles</li> <li>• Specialist technical principles</li> <li>• Designing and making principles</li> </ul>	How it's assessed <ul style="list-style-type: none"> <li>• Non-exam assessment (NEA): 30–35 hours approx</li> <li>• 100 marks</li> <li>• 50% of GCSE</li> </ul>