



Design & Technology: Timbers (Resistant Materials)

What will I learn about?

The Edexcel GCSE in Design and Technology – Timbers (Resistant Materials) technology allows students to:

- Make decisions, consider sustainability and combine skills with knowledge and understanding in order to design and make quality products.
- Explore ways in which aesthetic, technical, economic, environmental, ethical and social dimensions interact to shape designing and making.
- Analyse existing products and produce practical solutions to needs, wants and opportunities, recognising their impact on quality of life.
- Develop decision-making skills through individual and collaborative working.
- Understand that designing and making reflect and influence cultures and societies, and that products have an impact on lifestyle.
- Develop skills of creativity and critical analysis through making links between the principles of good design, existing solutions and technological knowledge.

How will my work be assessed?

| Component | Overview | Assessment |
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| Examination (50% of your qualification) | <p>The paper includes calculations, short-open and open-response questions as well as extended-writing questions focused on: Analysis and evaluation of design decisions and outcomes, against a technical principle, for prototypes made by others.</p> <p>Analysis and evaluation of wider issues in design technology, including social, moral, ethical and environmental impacts.</p> <p>The paper is split into section A “core” and section B “material” categories.</p> | <p>Exam 1hr 45mins Total of 100 marks</p> <p>Students must answer all questions in Section A (40 marks).</p> <p>Students must choose one specialism in Section B: either Metals, Papers and Boards; Polymers; Systems; Textiles or Timbers (60 marks).</p> |
| Design & Make (50% of your qualification) | <p>Three contextual challenges will be provided, you must choose one to respond to.</p> <p>You will produce a project which consists of a portfolio and a prototype.</p> <p>There are four parts to the assessment: Part 1: Investigate; Part 2: Design; Part 3: Make; Part 4: Evaluate</p> | <p>Non-examined assessment, internally assessed and externally moderated.</p> <p>Total of 100 marks</p> |

Who can I speak to for more information?

For more information about Timbers (Resistant Materials) please speak to Mr Dobson, Curriculum Area Leader: Technology or contact options@penistone-gs.uk.