



# 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
<b>Examination</b> (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 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>
<b>Design &amp; Make</b> (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](mailto:options@penistone-gs.uk).