

# GCSE Design Technology: Engineering

## Overview

Learners will gain in-depth knowledge of engineering processes and practices. This is underpinned by a wider understanding of new and emerging technologies, sustainable design, and historical and cultural influences on engineering design.

## What will I study?

The course combines practical skills, supported by theoretical learning. Topics include the properties of materials such as ferrous metals and polymers, electronic systems, and the production process.

Learners will also investigate and analyse problems that they will use to inform the development, communication and strategies surrounding practical projects, including identifying and understanding user needs, creating prototypes, and addressing challenges.

## Assessment

There are two assessments for this course - a written examination, and a practical coursework based project.

Units	Content/Assessment Type	Weight
Unit 1: Design & Technology in the 21st Century	<ul style="list-style-type: none"><li>• 1 hour 30 min onscreen examination.</li><li>• Questions assess understanding of engineering design</li></ul>	30%
Unit 2: Design Project	<ul style="list-style-type: none"><li>• Non-examined assessment.</li><li>• Contextual challenge set by exam board.</li><li>• Identify, investigate, analyse and outline design possibilities.</li><li>• Design and make prototypes and evaluate their fitness for purpose.</li></ul>	70%

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**GROW**

**THRIVE**

**FLOURISH**

