

Design and Technology





GCSE Design and Technology

Subject Leader	Mrs E R Underhill
Subject Teacher(s)	Mrs R Lucas
Course Title	GCSE Design and Technology 9-1
Website	https://www.aqa.org.uk/subjects/design-and-technology/gcse/design-and-technology-8552



Course Overview

- Develop a broad knowledge of materials, components and technologies and practical skills to develop high quality, imaginative and functional prototypes
- Be ambitious and open to explore and take design risks in order to stretch the development of design proposals, avoiding clichéd or stereotypical responses
- Consider the costs, commercial viability and marketing of products
- Demonstrate safe working practices in design and technology
- Use key design and technology terminology including those related to: designing, innovation and communication; materials and technologies; making, manufacture and production; critiquing, values and ethics

- Demonstrate their understanding that all design and technological activity takes place within contexts that influence the outcomes of design practice.
- Develop realistic design proposals as a result of the exploration of design opportunities and users' needs, wants and values.
- Use imagination, experimentation and combine ideas when designing
- Develop the skills to critique and refine their own ideas whilst designing and making
- Communicate their design ideas and decisions using different media and techniques, as appropriate for different audiences at key points in their designing
- Develop decision making skills, including the planning and organisation of time and resources when managing their own project work



Assessment

Non-exam assessment (NEA)

What's assessed:

Practical application of:

Core technical principles

Specialist technical principles

Designing and making principles

How its assessed

Non-exam assessment (NEA) 30-35 hours approx.

100 marks

50% of GCSE

Task(s)

Substantial design and make task

Assessment criteria:

Identifying and investigating design possibilities

Producing a design brief and specification

Generating design ideas

Developing design ideas

Realising design ideas

Analysing & evaluating

Written exam

How it's assessed

2 hours

100 marks

50% of GCSE

Section A – Core technical principles (20 marks)

A mixture of multiple choice and short answer questions assessing a breadth of technical knowledge and understanding.

Section B – Specialist technical principles (30 marks)

Several short answer questions (2–5 marks) and one extended response to assess a more in depth knowledge of technical principles.

Section C – Designing and making principles (50 marks)

A mixture of short answer and extended response questions

Additional information

Design and Technology will prepare 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.

