

DESIGN & TECHNOLOGY

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GCSE

Why choose GCSE Design & Technology?

GCSE Design & 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.

The course will develop:

- Understanding that all design and technological activity take place within contexts that influence the outcomes of design practice
- Realistic proposals as a result of exploring design opportunities and users' needs, wants and values
- Imagination and experimentation when creating design ideas
- Skills to critique and refine their ideas whilst designing and making
- Communication of ideas using different media and techniques
- Decision making skills, including the planning and organisation of time and resources when managing their own project work
- Design proposals which avoid stereotypical responses
- Skills to consider the costs, commercial viability and marketing of products.
- Safe working practices in design and technology

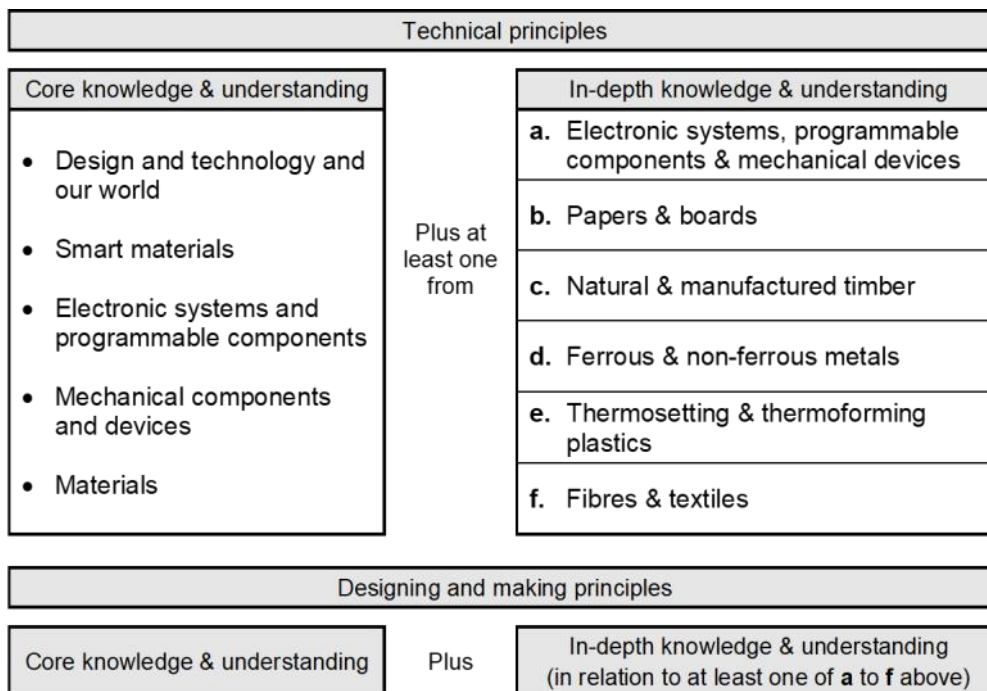
The Overall Structure

What careers can I do with Design and Technology?

Design and Technology can set you up for a career in a wide variety of industries, such as:

- Fashion
- Engineering
- Architecture
- Information technology
- Education

Students develop generic problem solving and technological skills which are useful in a variety of disciplines and careers such as: Graphic Designer • Web Designer • Photographer • Animator • Illustrator • Production Planner • Civil Engineer • Software



At Acl Academy we will be offering the following 2 course:

- Eduqas GCSE Design and Technology (Specialist Area—Natural and manufactured timber)
- AQA GCSE Design and Technology (Specialist Area—Textiles based materials)

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EDUQAS (Natural and Manufactured Timber)

Content of the Course

Year 10

This year will include a range of different projects focused on each of the core knowledge material areas such as: Bird Feeder (Natural and manufactured timbers), Interior Design (Paper and Boards), USB Lamp (Electronic systems and programmable components), Textiles, Mechanical product. These short projects will allow pupils the chance to experience each material area in a practical way to gain knowledge for the exam. Contextual challenges will then be researched and explored towards the end of the summer term.

Year 11

NEA Contextual Challenge. Exemplar briefs are below.

Brief 1: SUSTAINABILITY AND OUR FUTURE NEEDS

Look at an everyday product and consider how it could be redesigned using recycled or waste materials.

Brief 2: IMPROVING THE DAILY LIFE OF ELDERLY PEOPLE

Look at the specific needs of elderly people and design a unique product that would support their everyday lives.

Brief 3: OUTDOOR PURSUITS AND PHYSICAL FITNESS

Look at outdoor activities and physical fitness and consider the needs and wants of people who do such activities.

Assessment:

Written exam

50%

Percentages for the Written Exam:

Core knowledge— 45% (Questions 1-4)

Area of Study—40% (Questions 5-6)

Mathematics—15% from questions across the paper

Specification Overview

Component 1 (Written exam):

Externally assessed.

Mix of short answer, structured and extended writing questions.

Based on:

- Technical Principles

- Designing and making principles
Along with their ability to analyse and evaluate design decisions and wider issues in Design and Technology.

Component 2 (NEA):

Internally marked, externally moderated.

A sustained design and make task, based on contextual challenges, assessing candidates ability to;

- Identify, investigate and outline design possibilities
- Design and make prototypes
- Analyse and evaluate design

What will the NEA look like?

50% **35 hours** **Contextual challenge** **100 marks** **Internally assessed** **Externally moderated**

- A3 Formal Presentation Folio
- A3 Informal Sketchpad Folio
- A fully functioning final prototype (based on natural and manufactured timber)
- Supporting models, prototypes, tests and iterations

