GCSE Design & Technology KS4

The DT Department have selected the AQA specification for GCSE DT (8552) 50% coursework (NEA) and 50% Examination https://www.aga.org.uk/subjects/design-and-technology/gcse/design-and-technology-8552

	Students will learn:	
Years 9/10	 New and emerging technologies Energy generation and storage Systems approach to designing Mechanical devices Developments in new materials Materials and their working properties Selection of materials or components Using and working with materials Ecological and social footprint The work of others Investigation, primary & secondary data Design strategies Communication of ideas 	GCSE DESIGN AND TECHNOLOGY WITH The Control of th
Year 11	 Specialist techniques and processes Specialist tools and equipment Material management Stock forms, types & sizes Tolerances Forces and stresses Prototype development Surface treatments and finishes Scales of production 	

Paper :

What's assessed

- · Core technical principles
- · Specialist technical principles
- · Designing and making principles

In addition:

- · at least 15% of the exam will assess maths
- at least 10% of the exam will assess science.

How it's assessed

- · Written exam: 2 hours
- 100 marks
- 50% of GCSE

Questions

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.

Non-exam assessment (NEA)

What's assessed

Practical application of:

- Core technical principles
- · Specialist technical principles
- · Designing and making principles

How it's 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
- In the spirit of the iterative design process, the above should be awarded holistically where they take place and not in a linear manner
- Contextual challenges to be released annually by AQA on 1 June in the year prior to the submission of the NEA
- · Students will produce a prototype and a portfolio of evidence
- · Work will be marked by teachers and moderated by AQA