



Y11 Learning Journey. Subject: Design Technology GCSE

Exam Requirements: Your GCSE in Design Technology is structured, and examined, in the following way:

NEA	External Exam
<p>Non-examined assessment 50% of the qualification 100 marks</p> <p>Content overview There are four parts to the assessment: 1 – Investigate This includes investigation of needs and research, and a product specification 2 – Design This includes producing different design ideas, review of initial ideas, development of design ideas into a chosen design, communication of design ideas and review of the chosen design 3 – Make This includes manufacture, and quality and accuracy 4 – Evaluate This includes testing and evaluation.</p> <p>Assessment overview</p> <ul style="list-style-type: none"> ● Students will undertake a project based on a contextual challenge released by us a year before certification. ● This will be released on 1st June and will be available on our website. ● The project will test students' skills in investigating, designing, making and evaluating a prototype of a product. ● Task will be internally assessed and externally moderated. ● The marks are awarded for each part as follows. <p>1 – Investigate (16 marks) 2 – Design (42 marks) 3 – Make (36 marks) 4 – Evaluate (6 marks)</p>	<p>Written examination: 1 hour and 45 minutes 50% of the qualification 100 marks</p> <p>Assessment overview Section A: Core This section is 40 marks and contains a mixture of different question styles, including open-response, graphical, calculation and extended-open-response questions. There will be 10 marks of calculation questions in Section A.</p> <p>Section B: Material categories – Timbers This section is 60 marks and contains a mixture of different question styles, including open-response, graphical, calculation and extended-open-response questions. There will be 5 marks of calculation questions in Section B</p>

Overview of the Year:

Each week will consist of 20-30 minutes of theory, with the remaining time spent on the NEA. Each week there will be a homework attached to the theory, which will be marked and assessed in the following weeks lesson. At the end of every 3-4 topics, there will be an assessment to track the students' progress and understanding.

Week Beginning	The focus of your learning or revision this week:	Key assessment pieces or specific homework tasks (including deadlines of any coursework/NEAs)
18/09/23	NEA – Initial ideas Test on Topics 1.1-1.3	
25/09/23	NEA – Initial ideas Topic 1.4	
02/10/23	NEA –Development of initial ideas Topic 1.5	
09/10/23	NEA –Development of initial ideas Topic 1.6	Completion of Initial Ideas
16/10/23	NEA – Final Design Test on Topics 1.4-1.6	
Half Term		
30/10/23	NEA – Final Design Topic 1.7	Completion of Final Design
06/11/23	NEA – Manufacturing Topic 1.8	
13/11/23	NEA – Manufacturing Topic 1.9	
20/11/23	NEA – Manufacturing Test on Topics 1.7-1.9	
27/11/23	NEA – Manufacturing Topic 1.10	
04/12/23	NEA – Manufacturing Topic 1.11	
11/12/23	Assessment Week One	
18/12/23	NEA – Manufacturing Topic 1.12	
Christmas Break		
08/01/24	NEA – Manufacturing Topic 1.13	
15/01/24	NEA – Manufacturing Topic 1.14	
22/01/24	NEA – Manufacturing Topic 1.15	Completion of Manufacturing
29/01/24	NEA – Testing and Evaluation Test on Topics 1.12-1.15	
05/02/24	NEA – Product Life Cycle Analysis	Completion of all NEA work – Final submission!

	Topic 1.17	
Half Term		
19/02/24	Assessment Week Two	
26/02/24	Topics 1.17 and 7.1 (As in the specification)	
04/03/24	Topics 7.2 and 7.3 (As in the specification)	
11/03/24	Topics 7.4 and 7.5 (As in the specification)	
18/03/24	Topic 7.6 (As in the specification)	
25/03/24	Topic 7.7 and 7.8 (As in the specification)	
Easter Break		
15/04/24	Revisit prior learning – Focusing on Topics 1.1-1.4	
22/04/24	Revisit prior learning – Focusing on Topics 1.5-1.8	
29/04/24	Revisit prior learning – Focusing on Topics 1.9-1.13	
07/05/24	Revisit prior learning – Focusing on Topics 1.14-1.17	
13/05/24	GCSE Exams Start	

Exam Practice:

G:\Technology\Resistant Materials\GCSE revision

[Edexcel Design and Technology \(9-1\) from 2017 | Pearson qualifications](#)

Topics

- **New and emerging technologies**
- **Energy generation and storage**
- **Developments in modern materials**
- **Electronic systems**
- **Mechanical devices**
- **Material categories and properties**
- **Design contexts**
- **Environmental, social and economic challenges**
- **Investigating past work**
- **Design strategies**
- **Communication of ideas**

Revision Materials:

G:\Technology\Resistant Materials\Sample revision guide for Edexcel.pdf
[Edexcel GCSE \(9-1\) Design and Technology Student Book \(Edexcel GCSE Design and Technology \(9-1\)\) : Wellington, Mark, Dennis, Andrew, Colley, Trish, Weston, Tim, Dhami, Jenny: Amazon.co.uk: Books](#)

[GCSE Design and Technology - Edexcel - BBC Bitesize](#)

[Seneca - Learn 2x Faster \(senecalearning.com\)](#) – Edexcel – Design and Technology

G:\Technology\Core Knowledge

GCSE Revision guide, available on the school network; G:\Technology\New D&T Digital Textbook and NEA delivery guide\DT Textbook Edexcel

<p><u>Glossaries:</u></p> <p><u>G:\Technology\Core Knowledge</u></p> <p><u>In the above area, each topic has its own PDF/PowerPoint. At the beginning of every PDF/PowerPoint are all the key words for that topic.</u></p>	<p><u>Advice and Guidance for Revision</u></p> <p>Section 1 When naming the property, link the usage of the product to the material. E.g. if the picture is of a raincoat and it asks for the property, you would say waterproof. You wouldn't say electrical insulator, which is true but not relevant.</p> <p>2-mark questions and 4-mark questions Ensure you write a point then an explanation of your point. For a 4 marker, write 2 points and 2 explanations. E.g. oak is used for staircases (1 mark), because it is durable and when people walk on the stairs it won't wear away quickly (1 mark).</p> <p>Evaluation questions These are usually 8 marks, and ask for advantages and disadvantages. Plan out somewhere on the page, your 8 points first. Then start to construct your answer. Don't just start writing, plan your answer carefully.</p> <p>Maths questions Ensure you use their formulas at the front of the book, and if they state pie is 3.14, use that and don't press pie on your calculator. If maths is not your forte, still have a go but spend time better elsewhere.</p> <p>Never say strong or cheap, always use a proper property</p> <p>Design question Don't get hung up on your drawing, it's the idea that counts. Ensure you add as many labels of materials and processes as you can. Remember to use all of the information given to you in the question, especially measurements.</p>
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