

Subject: Design and Technology

Date	Exams/ Assess	Unit(s) NEA (50%)	Unit(s) Paper 1 (50%)	
2/9/24		<p align="center"><u>Non- Exam Assessment (Coursework)</u></p> <p>Students will produce a prototype and a portfolio of evidence following the iterative design process.</p> <p>What is assessed:</p> <p>The practical application of:</p> <ul style="list-style-type: none"> • Core technical principles • Specialist technical principles • Designing and making principles <p>GCSE NEA coursework assessment criteria</p> <p>How it is assessed:</p> <ul style="list-style-type: none"> • 100 marks • 50% of GCSE <p>Section A: Identifying and investigating design possibilities (10 marks) Section B: Producing a design brief and specification (10 marks) Section C: Generating design ideas (20 marks) Section D: Developing design ideas (20 marks) Section E: Realising design ideas (making) (20 marks) Section F: Analysing and evaluating (20 marks)</p>	<p>3.1 Core technical principles</p> <ul style="list-style-type: none"> • new and emerging technologies • energy generation and storage • developments in new materials 	
9/9/24				<ul style="list-style-type: none"> • systems approach to designing • mechanical devices • materials and their working properties
16/9/24				
23/9/24				
30/09/24				
7/10/24				
14/10/24				
21/10/24				
4/11/24				
11/11/24				
18/11/24				
25/11/24				
2/12/24				
9/12/24				
16/12/24				
6/1/25				<p>3.2 Specialist technical principles</p> <ul style="list-style-type: none"> • selection of materials or components • forces and stresses • ecological and social footprint • sources and origins • using and working with materials
13/1/25				<ul style="list-style-type: none"> • Stock forms, types and sizes • scales of production • specialist techniques and processes • Surface treatments and finishes.
20/1/25				
27/1/25				
3/2/25				
10/2/25				
24/2/25				
3/3/25				
10/3/25				
17/3/25				
24/3/25				
31/3/25		<p>Continuation of preparation for exam paper 1:</p> <p>Additional theory to start March* Core technical principles Specialist technical principles Design & making principles</p>	<p>3.3 Designing and making principles</p> <ul style="list-style-type: none"> • investigation, primary and secondary data • environmental, social and economic challenge • the work of others • design strategies 	
21/4/25		<p>Revisiting all links to Mathematics (calculating waste/extracting information</p>		

Year 11 Long Term Scheme of Learning 2024-25

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HELSEBY

High School



Achieving Success
Valuing Others

28/4/25		etc.) and Science (ethical factors/consideration of ecological & social footprint of materials etc.)	<ul style="list-style-type: none"> • communication of design ideas • prototype development • selection of materials and components • tolerances • material management • specialist tools and equipment • Specialist techniques and processes.
5/5/25			
12/5/25		Start of GCSE exams	
19/5/25			
2/6/25			
9/6/25			
16/6/25			
23/6/25			
30/6/25			
7/7/25			
14/7/25			