

Subject Design and Technology

Date	Exams/ Assess	Unit(s) NEA (50%)	Unit(s) Paper 1 (50%)	
4/9/23		<p style="text-align: center;"><u>Non- Examined 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 	
11/9/23			<ul style="list-style-type: none"> • systems approach to designing • mechanical devices • materials and their working properties 	
18/9/23				
25/9/23				
2/10/23				
9/10/23				
16/10/23				
30/10/23				
6/11/23				
13/11/23				
20/11/23				
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4/3/24				
11/3/24				
18/3/24				
25/3/24				
15/4/24				
22/4/24				
29/4/24				
6/5/24		<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>Revisiting all links to Mathematics (calculating waste/extracting information etc.) and Science (ethical factors/consideration of ecological & social footprint of materials etc.)</p>	<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 <p>3.3 Designing and making principles</p> <ul style="list-style-type: none"> • Stock forms, types and sizes • scales of production • specialist techniques and processes • Surface treatments and finishes. <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 • communication of design ideas • prototype development • selection of materials and components • tolerances 	

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			<ul style="list-style-type: none"> • material management • specialist tools and equipment • Specialist techniques and processes.
13/5/24		Start of GCSE exams	
20/5/24			
3/6/24			
10/6/24			
17/6/24			
24/6/24			
1/7/24			
8/7/24			
15/7/24			