

Design and Technology

Date	Exams/ Assess	Unit(s)
4/9/23		Introduction to GCSE Design and Technology.
11/9/23		<ul style="list-style-type: none"> <li>• <b>Baseline Skills Builder – Focused practical.</b></li> </ul>
18/9/23		<p><b>Core technical principles</b></p> <ul style="list-style-type: none"> <li>• 3.1.1 New and emerging technologies (Sustainability and the environment)</li> </ul>
25/9/23		<ul style="list-style-type: none"> <li>• 3.1.6 Materials (Timbers) and working properties.</li> <li>• 3.1.5 Mechanical Devices – Movement and Forces</li> </ul>
2/10/23		<p><b>Mock NEA – Section A</b></p>
9/10/23		<ul style="list-style-type: none"> <li>• Contextual challenge – Sustainable lighting – Problem analysis</li> <li>• Exploring design opportunities – Product Analysis.</li> <li>• Generating a client profile.</li> </ul>
16/10/23		<p><b>Practical - Mood light</b></p> <ul style="list-style-type: none"> <li>• Measuring, marking out, cutting, and joining of materials.</li> </ul>
30/10/23		<p><b>Core technical principles</b></p> <ul style="list-style-type: none"> <li>• 3.1.6 Materials (Polymers) and working properties.</li> <li>• 3.1.5 Mechanical Devices – Levers and Linkages</li> </ul>
6/11/23		<p><b>Specialist technical principles</b></p>
13/11/23		<ul style="list-style-type: none"> <li>• 3.2.4 Sources and Origins of materials (Timbers and Polymers)</li> <li>• 3.2.6 Stock forms and Standard components</li> </ul>
20/11/23		<p><b>Designing and making principles</b></p>
27/11/23		<ul style="list-style-type: none"> <li>• 3.3.8 Tolerance</li> <li>• 3.3.9 Material management</li> </ul>
4/12/23		<p><b>Mock NEA – Section B/C</b></p> <ul style="list-style-type: none"> <li>• Design brief and specification.</li> <li>• Drawing techniques – Orthographic and Isometric.</li> </ul>
11/12/23		<p><b>Practical - Mood light</b></p> <ul style="list-style-type: none"> <li>• Measuring, marking out, cutting, and joining of materials.</li> </ul>
1/1/24		<p><b>Specialist technical principles</b></p> <ul style="list-style-type: none"> <li>• 3.2.8 Specialist techniques and processes. Wastage, addition, deforming.</li> </ul>
8/1/24		<p><b>Core technical principles</b></p>
15/1/24		<ul style="list-style-type: none"> <li>• 3.1.1 New and emerging technologies. Industry, Enterprise, and sustainability</li> </ul>
22/1/24		<ul style="list-style-type: none"> <li>• 3.1.4 Systems approach to designing.</li> </ul>

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29/1/24		<p><b><u>Mock NEA – Section C</u></b></p> <ul style="list-style-type: none"> <li>Development of design ideas.</li> </ul>
5/2/24		
12/2/24		<p><b><u>Practical - Mood light</u></b></p> <ul style="list-style-type: none"> <li>Final assembly and finishing of the product.</li> </ul>
26/2/24		<p><b><u>Core technical principles</u></b></p> <ul style="list-style-type: none"> <li>3.1.1 New and emerging technologies. People, culture, and society. Production techniques and systems.</li> <li>3.1.1 Developments in new materials</li> </ul>
4/3/24		
11/3/24		<p><b><u>Mock NEA – Section C / D</u></b></p> <ul style="list-style-type: none"> <li>Development of design ideas.</li> <li>Modelling techniques. Foam board. 2D Design, SketchUp.</li> </ul>
18/3/24		<p><b><u>Practical – Storage toolbox</u></b></p> <ul style="list-style-type: none"> <li>Measure, mark out, cut, and assemble.</li> </ul>
25/3/24		
15/4/24		<p><b><u>Core technical principles</u></b></p> <ul style="list-style-type: none"> <li>3.1.6 Materials and their working properties – Metals</li> </ul>
22/4/24		<p><b><u>Designing and making principles</u></b></p> <ul style="list-style-type: none"> <li>3.3.3 The work of others</li> </ul>
29/4/24		<p><b><u>Specialist technical principles</u></b></p> <ul style="list-style-type: none"> <li><u>3.2.1 Selection of materials or components</u></li> <li>3.2.8 Specialist techniques and processes. – Turning</li> </ul>
6/5/24		
13/5/24		<p><b><u>Practical – Storage toolbox</u></b></p> <ul style="list-style-type: none"> <li>Polymer forming, CAD laser cutting. Metal turning / threading.</li> <li>Finishing</li> </ul>
20/5/24		<p><b><u>GCSE NEA context release</u></b></p> <ul style="list-style-type: none"> <li>Section A. Exploring design opportunities.</li> <li>Section B. Developing a design brief and specification.</li> <li>Section C. Development of design ideas</li> </ul>
3/6/24		
10/6/24		
17/6/24		
24/6/24		
1/7/24		
8/7/24		
15/7/24		