

Subject: Design and Technology

Date	Exams/ Assess	Unit(s)
2/9/24		Focused Practical
9/9/24		<ul style="list-style-type: none"> • Skills Builder Storage Box. • How to measure, mark out, cut and join materials using a range of methods.
16/9/24		Mock NEA
23/9/24		<ul style="list-style-type: none"> • How to produce a 'plan of manufacturing'. • The requirements for section A of your mock NEA.
30/09/24		Core and Specialist technical Principles
7/10/24		<ul style="list-style-type: none"> • 3.1.6 Introduction to Materials (Timbers) and working Properties • 3.2.4 Sources and origins
14/10/24		<ul style="list-style-type: none"> • 3.1.6 Introduction to Materials (Polymers) and working Properties • 3.2.4 Sources and origins
21/10/24		<ul style="list-style-type: none"> • 3.1.1 Sustainability and the environment. LCA. 6 R's. • 3.2.3 Ecological and social footprint
4/11/24		Mock NEA
11/11/24		<ul style="list-style-type: none"> • How to consider social, cultural and moral issues linked to your project. • The requirements of Section C for your mock NEA.
18/11/24		<ul style="list-style-type: none"> • Range of drawing techniques used in technology.
25/11/24		Core and Specialist technical Principles
2/12/24		<ul style="list-style-type: none"> • 3.1.1 Introduction to CAD / CAM / CNC. • Application of 2D Design tools.
9/12/24		<ul style="list-style-type: none"> • 3.1.1 Understand the impact of new and emerging technologies with relation to social, cultural and moral issues.
16/12/24		<ul style="list-style-type: none"> • 3.3.5 Communication of design ideas. • <i>Develop, communicate, record and justify design ideas using a range of appropriate techniques</i>
6/1/25		Focused Practical
13/1/25		<ul style="list-style-type: none"> • How to measure, mark out, cut and join timber components. • Electrical components used in simple circuits. • How to select from and use specialist tools, techniques, processes, equipment and machinery precisely
20/1/25		Mock NEA
27/1/25		<ul style="list-style-type: none"> • Section D – Further research to include elements from focused theory teaching
27/1/25		Core and Specialist technical Principles
3/2/25		<ul style="list-style-type: none"> • 3.2.6 Standard Components and Stock Forms • 3.2.8 Specialist techniques and processes • 3.2.1 Selection of materials or components • 3.1.4 Systems approach to designing.

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10/2/25		<ul style="list-style-type: none"> Inputs, processes and outputs.
24/2/25		<p>Focused Practical</p> <ul style="list-style-type: none"> How to use CAD in order to produce products. Key functions and requirements for the laser cutter to work effectively. How to use hot wire strip heater. How to use the metal turning lathe <p>Core and Specialist technical Principles</p> <ul style="list-style-type: none"> 3.2.7 Scales of production How products are produced in different volumes. The reasons why different manufacturing methods are used for different production volumes: <ul style="list-style-type: none"> Prototype Batch Mass Continuous. 3.2.8 Commercial processes <ul style="list-style-type: none"> Timber based materials (routing and turning). Metal based materials (milling, casting and turning). Polymers (injection molding and extrusion).
3/3/25		
10/3/25		
17/3/25		
24/3/25		
31/3/25		
21/4/25		
28/4/25		
5/5/25		
12/5/25		
19/5/25		
2/6/25		<p style="text-align: center;"><u>GCSE NEA context release</u></p> <ul style="list-style-type: none"> Section A. Exploring design opportunities. Section B. Developing a design brief and specification. Section C. Development of design ideas
9/6/25		
16/6/25		
23/6/25		
30/6/25		
7/7/25		
14/7/25		