

## Curriculum Overview: Year 10 GCSE Design and Technology Textiles

**Rationale:** Throughout year 10 students will complete a design and make project following the key areas of the researching, designing, modelling, making and evaluating. One lesson out of 5 is dedicated to theory knowledge lessons, these lessons are aimed to support the students practical work and deepen their understanding of how products are produced in industry.

Term / Length of Unit	Outline	Assessment	Home Learning	Resources	Knowledge/Skills End Points	Reading
Autumn term 1 7 weeks	<p>Mock NEA project: Section A &amp; B: Research themes, specific research, create mood boards, questionnaires to establish TMG, product analysis, design criteria.</p> <p>Theory: Investigating the 'work of others', design strategies, properties of fibres, exclusive &amp; inclusive design strategies.</p>	<p>Class feedback of progress.</p> <p>FAR assessment of HL tasks.</p>	<p>HL 1: Product analysis of trainer exam question.</p> <p>HL 2: Iterative design poster.</p> <p>HL 3: Smart &amp; Modern materials</p> <p>HL 4: Fair trade questions.</p>	<p>Computer rooms needed to Mock NEA project.</p> <p>Teacher resources: Staff share: Design and Technology: Textiles: Year 10: Autumn term</p> <p>Student resources: Worksheets and support sheets to be provided by teacher.</p>	<ul style="list-style-type: none"> <li>Knowledge of key pages in the NEA including how to access higher mark band.</li> <li>Understand how designers use research to influence a new design</li> <li>Understand how data is used to interpret what the TMG will buy.</li> <li>Understand why design criteria's are used and how to create a design criteria using research and data (primary source).</li> <li>Analyse existing products</li> <li>Understanding of how to answer exam style questions</li> <li>Gained understanding of how products are designed using different strategies.</li> </ul> <p>End point: Completion of section A &amp; B.</p>	<ul style="list-style-type: none"> <li>Exam style questions</li> <li>Key vocabulary used</li> <li>Core definitions of key words</li> <li>Guided reading for practical tasks</li> <li>Research and write tasks.</li> <li>Recall and write tasks</li> </ul>
Autumn term 2 8 weeks	<p>Mock NEA project: Section C &amp; D: Work to include: initial design ideas, initial samples. Feedback from TMG, develop design ideas, developed sample, final design idea.</p> <p>Theory: SMCE issues in design, Maths in D&amp;T (3 lessons), interpreting data (linking to mock NEA)</p>	<p>Assessment of mock NEA folder.</p> <p>FAR assessment of Maths lessons.</p>	<p>HL 5: Product analysis of mobile phone exam question.</p> <p>HL 6: Math's questions</p> <p>HL 7: Math's questions</p> <p>HL 8: Math's questions</p>	<p>Teacher resources: Staff share: Design and Technology: Textiles: Year 10: Autumn term</p> <p>Student resources: Worksheets and support sheets to be provided by teacher.</p>	<ul style="list-style-type: none"> <li>Knowledge of key pages in the NEA including how to access higher mark band.</li> <li>Design skills developed using a range of mediums</li> <li>Develop practical skills through sampling different techniques such as using specialist machinery and decorative techniques.</li> <li>Develop knowledge of fabrics through use and testing</li> <li>Develop knowledge of construction and decorative techniques through testing ideas</li> <li>Analyse data from TMG to influence design ideas</li> </ul>	<ul style="list-style-type: none"> <li>Exam style questions</li> <li>Key vocabulary used</li> <li>Core definitions of key words</li> <li>Guided reading for practical tasks</li> <li>Research and write tasks.</li> <li>Recall and write tasks</li> </ul>

					<ul style="list-style-type: none"> <li>Gained understanding of how Maths is used in designing and manufacturing products.</li> <li>How to decode the exam questions.</li> </ul> <p>End point: Completion of Section C &amp; D</p>	
Spring term 12 weeks	<p>Mock NEA project: Section E: Realising design ideas. Work to include: making of final product.</p> <p>Theory: New and emerging technologies: impact on industry, CAD &amp; CAM, SMCE. Manufacturing processes: production methods, production aids, stock forms.</p> <p>PPE 1 – paper is from the back of the revision guide.</p>	<p>Assessment of mock NEA folder.</p> <p>Assessment of product.</p> <p>PPE 1</p>	<p>HL 1: Revision PPE 1</p> <p>HL 2: Complete actions from PPE 1 feedback.</p> <p>HL 3: Essay style question linking to PPE 2</p> <p>HL 4: Essay style question PPE 2</p> <p>HL 5: Essay style question PPE 2</p>	<p>Student Support sheets for NEA: Shared area: D&amp;T: Textiles: NEA</p> <p>Computer rooms needed to type up NEA.</p> <p>Teacher resources: Staff share: Design and Technology: Textiles: Year 10: Spring term</p> <p>Student resources: Worksheets and support sheets to be provided by teacher.</p> <p>PPE 1 – paper is from the back of the revision guide.</p>	<ul style="list-style-type: none"> <li>Knowledge of key pages in the NEA including how to access higher mark band.</li> <li>Develop practical skills through sampling different techniques such as using specialist machinery and decorative techniques.</li> <li>Develop pattern making/adaption skills to create toile and final product</li> <li>Independent working</li> <li>Problem solving</li> <li>Knowledge of how new and emerging technology impact the design industry</li> <li>Understanding of how and why different manufacturing process are used</li> <li>Understanding of how to answer exam style questions</li> </ul> <p>End point: Completion of Section E</p>	<ul style="list-style-type: none"> <li>Exam style questions</li> <li>Key vocabulary used</li> <li>Core definitions of key words</li> <li>Guided reading for practical tasks</li> <li>Recall and write tasks</li> </ul>
Summer term 1	<p>NEA: Section F: Evaluation. Work to include: Evaluation against their design specification, evaluation and feedback from TMG (in situ) and Modifications made for mass production (including redesign).</p> <p>Theory: All material areas: Timbers, metals, polymers, paper and board, recap of fibres.</p>	<p>Assessment of mock NEA.</p>	<p>HL 1: Task 1: Revision for PPE 2</p> <p>HL 2: Task 2: Revision for PPE 2</p> <p>HL 3: Task 3: Revision for PPE 2</p>	<p>Student Support sheets for NEA: Shared area: D&amp;T: Textiles: NEA</p> <p>Computer rooms needed to type up NEA.</p>	<ul style="list-style-type: none"> <li>Analytical skills</li> <li>Evaluation against different criteria's</li> <li>Critical reflection</li> <li>Suggestions of improvements</li> <li>Classification of sources for each material area</li> <li>Give examples of products made from each material area</li> <li>Sustainable sources within each area</li> <li>Justification of why specific materials are used for specific products.</li> </ul> <p>End point: Completion of Section F</p>	<ul style="list-style-type: none"> <li>Exam style questions</li> <li>Key vocabulary used</li> <li>Core definitions of key words</li> <li>Guided reading for practical tasks</li> <li>Recall and write tasks</li> </ul>

<p>Summer term 2</p>	<p>All lessons dedicated to NEA in this half term.</p> <p>NEA: Section A</p> <p>Research themes, specific research, create mood boards, questionnaires to establish TMG, design criteria.</p>	<p>Class feedback of progress.</p> <p>PPE 2</p>	<p>HL 4: Task 4: Revision for PPE 2</p> <p>HL 5: Complete actions from PPE 2 feedback.</p>	<p>Student Support sheets for NEA: Shared area: D&amp;T: Textiles: NEA</p> <p>Computer rooms needed to type up NEA.</p> <p>Each student must have an A3 folder to keep NEA in – Technician to order.</p>	<ul style="list-style-type: none"> <li>• Knowledge of key pages in the NEA including how to access higher mark band.</li> <li>• Understand how designers use research to influence a new design</li> <li>• Understand how data is used to interpret what the TMG will buy.</li> <li>• Understand why design criteria's are used and how to create a design criteria using research and data (primary source).</li> <li>• Analyse existing products</li> </ul> <p>End point: Completion of section A &amp; B.</p>	<ul style="list-style-type: none"> <li>• Exam style questions</li> <li>• Key vocabulary used</li> <li>• Core definitions of key words</li> <li>• Research and write tasks.</li> </ul>
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