



Curriculum Map: Subject:    D&T   

Year 10

Term	Unit of Work	Knowledge and Skills	Assessment			
1	<b>Theory: New &amp; emerging Technologies</b>	<p><b>Theory lessons:</b></p> <ul style="list-style-type: none"> <li>• Industry</li> <li>• Enterprise</li> <li>• Sustainability &amp; the environment</li> <li>• People</li> <li>• Society &amp; Culture</li> <li>• Production techniques &amp; systems</li> <li>• Informing design decisions</li> </ul> <p><b>TEST ONE</b></p> <p><b>Homework:</b> The work of others - researching key designers and key companies from specification.. Reinforce understanding of theory through long answer questions (revision)</p> <p><b>Specific subject projects</b></p> <table border="1" data-bbox="524 1150 1617 1423"> <tr> <td data-bbox="524 1150 889 1423"> <b>Graphics:</b>                      Development of CAD skills – magazine cover project                 </td> <td data-bbox="889 1150 1254 1423"> <b>Textiles:</b>                      Embroidery wallet to develop KS3 skills missed due to Covid                 </td> <td data-bbox="1254 1150 1617 1423"> <b>RM:</b>                      Introduction to woodworking machinery and tools (including production aids)                 </td> </tr> </table>	<b>Graphics:</b> Development of CAD skills – magazine cover project	<b>Textiles:</b> Embroidery wallet to develop KS3 skills missed due to Covid	<b>RM:</b> Introduction to woodworking machinery and tools (including production aids)	<p>Homework or class based long answer question. Literacy assessment.</p> <p>Specific subject assessment (teacher choice)</p>
<b>Graphics:</b> Development of CAD skills – magazine cover project	<b>Textiles:</b> Embroidery wallet to develop KS3 skills missed due to Covid	<b>RM:</b> Introduction to woodworking machinery and tools (including production aids)				



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<p><b>2</b></p>	<p><b>Theory: Energy generation &amp; storage. Developments in new materials</b></p>	<p><b>Theory lessons:</b></p> <ul style="list-style-type: none"> <li>• Energy generation</li> <li>• Energy storage</li> <li>• Modern materials</li> <li>• Smart materials</li> <li>• Textiles &amp; technical textiles</li> <li>• Composite materials</li> </ul> <p><b>Homework:</b> Long answer questions linked to part B and C of exam particularly Evaluation and Analysis of products.</p> <p><b>Specific subject projects</b></p> <table border="1" data-bbox="524 799 1617 1070"> <tr> <td data-bbox="524 799 889 1070"> <p><b>Graphics:</b> Making of pop-up card - development of pop-up techniques</p> </td> <td data-bbox="889 799 1254 1070"> <p><b>Textiles:</b> Making of embroidery wallet using basic textiles skills</p> </td> <td data-bbox="1254 799 1617 1070"> <p><b>RM:</b> Continue introduction to woodworking machinery and tools (including production aids)</p> </td> </tr> </table>	<p><b>Graphics:</b> Making of pop-up card - development of pop-up techniques</p>	<p><b>Textiles:</b> Making of embroidery wallet using basic textiles skills</p>	<p><b>RM:</b> Continue introduction to woodworking machinery and tools (including production aids)</p>	<p><b>Test One assessment</b></p> <p>Homework or class based long answer question. Literacy assessment.</p>
<p><b>Graphics:</b> Making of pop-up card - development of pop-up techniques</p>	<p><b>Textiles:</b> Making of embroidery wallet using basic textiles skills</p>	<p><b>RM:</b> Continue introduction to woodworking machinery and tools (including production aids)</p>				
<p><b>3</b></p>	<p><b>Theory: Systems approach to designing. Mechanical devices. Forces &amp; stresses</b></p>	<p><b>Theory lessons:</b></p> <ul style="list-style-type: none"> <li>• Systems approach to designing</li> <li>• Movement &amp; levers</li> <li>• Linkages</li> <li>• Rotary systems</li> <li>• Forces &amp; stresses / Reinforced materials</li> </ul>	<p>Homework or class based long answer question. Literacy assessment.</p> <p>Specific subject assessment (teacher choice)</p>			



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		<p><b>Homework:</b> Reinforce understanding of theory through long answer questions (revision)</p> <p><b>TEST TWO (include Evaluation question)</b></p> <p><b>Specific subject projects</b></p> <table border="1"> <tr> <td data-bbox="524 513 889 699"><b>Graphics:</b> Design development and communication of ideas project</td> <td data-bbox="889 513 1254 699"><b>Textiles:</b> Using a pattern (making PJ Shorts)</td> <td data-bbox="1254 513 1617 699"><b>RM:</b> Focus on plastics and modelling</td> </tr> </table>	<b>Graphics:</b> Design development and communication of ideas project	<b>Textiles:</b> Using a pattern (making PJ Shorts)	<b>RM:</b> Focus on plastics and modelling	
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4	<p><b>Theory:</b>  <b>Ecological &amp; Social Footprint.</b>  <b>Scales of Production.</b>  <b>Materials and their properties</b></p>	<p><b>Theory lessons:</b></p> <ul style="list-style-type: none"> <li>• Ecological &amp; social footprint</li> <li>• The 6Rs</li> <li>• Scales of productions</li> <li>• Materials and their properties (focus on specialist material)             <ul style="list-style-type: none"> <li>○ Paper &amp; Board</li> <li>○ Natural &amp; Synthetic fibres</li> <li>○ Thermosetting and thermoplastic</li> <li>○ Ferrous &amp; non-ferrous metals</li> <li>○ Hardwoods and softwoods</li> <li>○ Natural and synthetic fabrics</li> </ul> </li> </ul> <p><b>Homework:</b> Reinforce understanding of theory through long answer questions (revision)</p> <p><b>Specific subject projects</b></p> <table border="1"> <tr> <td data-bbox="524 1442 889 1487"><b>Graphics:</b></td> <td data-bbox="889 1442 1254 1487"><b>Textiles:</b></td> <td data-bbox="1254 1442 1617 1487"><b>RM:</b></td> </tr> </table>	<b>Graphics:</b>	<b>Textiles:</b>	<b>RM:</b>	<p><b>Test Two Assessment</b></p> <p>Specific subject assessment (teacher choice)</p>
<b>Graphics:</b>	<b>Textiles:</b>	<b>RM:</b>				



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		Focus on branding, logos and typography – continuation of design development skills	Continue using a pattern (making shorts)	Shaping plastics, CAD/CAM, modelling	
5	<b>Theory:</b> <b>Specialist technical principles.</b> <b>Design strategies and modelling.</b> <b>Communication of ideas.</b>	<b>Theory lessons:</b> <ul style="list-style-type: none"> <li>• Specialist technical principles related to subject</li> <li>• Design strategies</li> <li>• Communication of ideas               <ul style="list-style-type: none"> <li>○ One &amp; Two point perspective</li> <li>○ Isometric</li> <li>○ Orthographic</li> <li>○ Exploded drawings</li> <li>○ Scale drawings</li> <li>○ Schematic diagrams</li> <li>○ Flowcharts</li> </ul> </li> <li>• Production Aids</li> <li>• Scales of Production</li> <li>• Quality Checks</li> <li>• Ergonomics &amp; Anthropometrics</li> <li>• Tolerance/nesting</li> </ul> <p><b>Homework:</b> Exam technique and questions</p> <p><b>Mock Exam</b></p>			Homework or class based long answer question. Literacy assessment.  Specific subject assessment (teacher choice)
6	Commencement of NEA	<b>NEA Investigation:</b>			<b>Mock exam assessment</b>



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		<ul style="list-style-type: none"> <li>Students to complete a task analysis and their own individual research tasks</li> </ul> <p><b>Theory:</b></p> <ul style="list-style-type: none"> <li>Mock feedback</li> </ul> <p><b>Homework:</b> Reinforce understanding of theory through long answer questions (revision)</p>	Homework or class based long answer question. Literacy assessment.
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**Year 11**

Term	Unit of Work	Knowledge and Skills	Assessment
1	NEA	<p><b>NEA:</b></p> <ul style="list-style-type: none"> <li>Design Brief</li> <li>Specification</li> <li>Initial Design Section</li> </ul> <p><b>Homework:</b> Reinforce understanding of theory through long answer questions (revision). Peer/self assessment</p> <p><b>TEST ONE (Section B)</b></p>	<p><b>Test One assessment</b></p> <p>Homework or class based long answer question. Literacy assessment.</p>
2	NEA	<p><b>NEA:</b></p> <ul style="list-style-type: none"> <li>Initial Design Section</li> <li>Design Development/Modelling</li> <li>Manufacturing Specification</li> </ul>	<p><b>Mock exam assessment</b></p> <p>General NEA feedback. Non specific</p>



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		<p><b>Homework:</b> Reinforce understanding of theory through long answer questions (revision). Peer/self assessment</p> <p><b>Mock Exam</b></p>	
<b>3</b>	<b>NEA</b>	<p><b>NEA:</b></p> <ul style="list-style-type: none"><li>• Making skills</li></ul> <p><b>Homework:</b> Reinforce understanding of theory through long answer questions (revision). Peer/self assessment</p> <p><b>Theory:</b> Mock exam feedback</p>	<p>Homework or class based long answer question. Literacy assessment.</p> <p>General NEA feedback. Non specific</p>
<b>4</b>	<b>NEA</b>	<p><b>NEA:</b></p> <ul style="list-style-type: none"><li>• Making</li><li>• Testing/Evaluation</li></ul> <p><b>NEA Deadline: March</b></p> <ul style="list-style-type: none"><li>• Test two feedback</li><li>• Long answer questions (peer/self-assessed)</li><li>• Revision games</li></ul> <p><b>Test Two (including evaluation, maths, nesting question)</b></p> <p><b>Homework:</b> Reinforce understanding of theory through long answer questions (revision). Peer/self assessment</p>	<p><b>Test Two assessment</b></p> <p>Homework or class based long answer question. Literacy assessment.</p>



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5	Revision	<ul style="list-style-type: none"><li>• Test two feedback</li><li>• Long answer questions (peer/self-assessed)</li><li>• Revision games</li></ul>	NEA assessment  Homework or class based long answer question. Literacy assessment.