

Year 11 DT and Textiles Curriculum Plan							
Unit	Core		Hinterland		NC Coverage	Assessment	Whole Education Opportunities
	Knowledge	Skills	Knowledge	Skills			
Theory	<ul style="list-style-type: none"> <li>Technology in Manufacture</li> <li>Production systems – CAD/CAM</li> <li>Sustainability</li> <li>Products in society</li> <li>Properties and selection of materials</li> <li>Developments in new materials</li> <li>Scales of production</li> <li>Production aids</li> <li>Quality Control</li> <li>Materials focus: Timber or Textiles</li> <li>Standard components</li> <li>Looking at the work of others</li> <li>User groups</li> <li>Health and safety</li> <li>Drawing techniques</li> <li>Maths within DT</li> </ul>	<ul style="list-style-type: none"> <li>Applying prior understanding of topics to NEA</li> <li>Ability to apply knowledge learnt to select suitable materials for a range of products</li> <li>To improve communicational skills and teamwork</li> <li>Accuracy when using a range of tools and processes when modelling</li> <li>Evaluating designs to improve the product, considering the brief, spec and client.</li> <li>To apply the correct manufacturing process to a product designed</li> <li>To make links between material properties and existing products</li> <li>To evaluate the impact of products on the society and environment in order to minimise the impact when completing their NEA</li> </ul>	<ul style="list-style-type: none"> <li>Examples of industrial processes</li> <li>Wider consideration of other's work</li> <li>QA and QC examples used in industry for specific products</li> <li>Safety regulations in industry</li> <li>Laws relating to environmental issues</li> <li>Safety regulations specifically relating to BSI and EC</li> </ul>	<ul style="list-style-type: none"> <li>Wider understanding and use of CAD/CAM</li> <li>Testing of materials and end products</li> <li>Communication with 3<sup>rd</sup> party companies in industry</li> </ul>		<ul style="list-style-type: none"> <li>Year 11 PPE</li> <li>Low stakes testing</li> <li>Practice questions</li> <li>End of topic assessments – ability to re call</li> </ul>	<ul style="list-style-type: none"> <li>Maths</li> <li>Careers</li> <li>Geography and sustainability</li> <li>Art – design eras and designers</li> </ul>
NEA A02 Design and make prototypes that are fit for purpose	<ul style="list-style-type: none"> <li>Communication techniques</li> <li>CAD/CAM</li> <li>Scales of production</li> <li>Manufacturing jigs and templates</li> <li>Materials properties</li> <li>Market research</li> <li>Product Analysis</li> <li>Looking at work of others</li> <li>Using Materials efficiently</li> <li>Design strategies</li> <li>Working safely</li> </ul>	<ul style="list-style-type: none"> <li>Developing and creating an end final design which fully accounts for research collected</li> <li>Reacting to 3<sup>rd</sup> party testing</li> <li>Selecting the correct tools, materials and processes for an end product</li> <li>Skilfully and accuracy creating an end product that solves a brief</li> <li>Exploring a range of modelling techniques to support informed developments within designs</li> </ul>	<ul style="list-style-type: none"> <li>Iterative design</li> <li>User centred design</li> <li>H&amp;S regulations in industry</li> <li>Laws protecting employers and employees</li> </ul>	<ul style="list-style-type: none"> <li>Using alternative CAD packages</li> <li>Wider range of processes which are more accurate and higher level</li> </ul>		Marked using Exam board assessment criteria	<ul style="list-style-type: none"> <li>ICT</li> <li>Careers</li> </ul>
NEA A03 Analyse and evaluate	<ul style="list-style-type: none"> <li>Communication techniques</li> <li>Maths – presenting and reading data</li> <li>Testing (BSI/EC exc)</li> </ul>	<ul style="list-style-type: none"> <li>To analyse data collected to explain design developments and decisions</li> <li>To practice a range of communicational techniques to evidence manufacture</li> <li>To analyse decisions made and justify reasoning</li> <li>To explore future developments as a result of completing the design and manufacture process</li> </ul>	<ul style="list-style-type: none"> <li>Data collected by external agencies</li> <li>Alternative methods of manufacture</li> </ul>	<ul style="list-style-type: none"> <li>Advanced presentation techniques</li> </ul>		Marked using Exam Board assessment criteria	<ul style="list-style-type: none"> <li>ICT</li> </ul>
Revision	<ul style="list-style-type: none"> <li>Covering theory topics taught throughout the year.</li> </ul>						