

# KS4 CURRICULUM: TEXTILES (YEAR 10)

<p><b>Overview</b>            In Textiles you will learn about:</p> <ul style="list-style-type: none"> <li>• Core design and technology principles with some emphasis on maths and science skills</li> <li>• In-depth knowledge of how different materials and manufacturing processes are used to design and make products.</li> </ul>
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	Focus / Topic	Knowledge & Skills	Assessment
Autumn 1	Core Design and Technology Content <ul style="list-style-type: none"> <li>• Mini contextual challenge (Tabard design and make project)</li> </ul>	<ul style="list-style-type: none"> <li>• Impact of new and emerging technologies</li> <li>• Informing design developments</li> <li>• How energy is generated and stored</li> <li>• Modern and smart materials</li> <li>• The functions of mechanical devices</li> <li>• Electronic systems</li> </ul>	<ul style="list-style-type: none"> <li>• Maths formative assessment homework on Google classroom</li> <li>• Half Term Test on theory content covered (w/b 14<sup>th</sup> October 2019)</li> </ul>
Autumn 2	Core Design and Technology Content <ul style="list-style-type: none"> <li>• Mini contextual challenge (Tabard design and make project)</li> </ul>	<ul style="list-style-type: none"> <li>• The use of programmable components</li> <li>• The categorisation of the types, properties and structure of ferrous and non-ferrous metals</li> <li>• The categorisation of the types, properties and structure of papers and boards</li> </ul>	<ul style="list-style-type: none"> <li>• Assessment week (w/b 11th November 2019)</li> </ul>
Spring 1	Specialist Material Categories (Textiles) <ul style="list-style-type: none"> <li>• Mini Contextual challenge – Manufacture (Skirt project)</li> </ul>	<ul style="list-style-type: none"> <li>• The categorisation of the types, properties and structure of natural, synthetic, blended and mixed fibres and woven, non-woven and knitted textiles</li> <li>• Developments in modern and smart materials, composite materials and technical textiles</li> </ul>	<ul style="list-style-type: none"> <li>• Maths formative assessment test on Google classroom</li> <li>• Half Term Test on theory content (w/b 10<sup>th</sup> February 2020)</li> </ul>
Spring 2	Specialist Material Categories (Textiles) <ul style="list-style-type: none"> <li>• Mini Contextual challenge – Manufacture (Skirt project)</li> </ul>	<ul style="list-style-type: none"> <li>• Impact of forces and stress on textiles products.</li> <li>• Typical stock forms, types and sizes used for textiles</li> <li>• Processes used to manufacture products to different scales of production.</li> <li>• Specialist techniques used for high quality textiles prototypes.</li> <li>• Surface treatments and finishes.</li> </ul>	<ul style="list-style-type: none"> <li>• Maths formative assessment homework on Google classroom</li> <li>• Half Term Test on theory content (w/b 30<sup>th</sup> April 2020)</li> </ul>
Summer 1	Specialist Material Categories (Textiles) <ul style="list-style-type: none"> <li>• Mini Contextual challenge – Manufacture (Skirt project)</li> </ul>	<ul style="list-style-type: none"> <li>• Investigate social and economic challenges</li> <li>• Investigate the work of others</li> <li>• Avoiding design fixation</li> <li>• Developing design ideas</li> </ul>	<ul style="list-style-type: none"> <li>• Maths formative assessment homework on Google classroom</li> <li>• Half Term Test on theory content (w/b 18<sup>th</sup> May 2020)</li> </ul>
Summer 2	Non-exam assessment	<ul style="list-style-type: none"> <li>• Contextual challenge – Investigate</li> <li>• Contextual challenge – Specification</li> <li>• Contextual challenge – Design</li> </ul>	<ul style="list-style-type: none"> <li>• End of Year exams (w/b 22nd June 2020 for 2 weeks)</li> </ul>

<p><b>Further Information</b></p> <ul style="list-style-type: none"> <li>• Exam board: Pearson Edexcel</li> <li>• Component 1 (1DT0/1E): Written paper (100 Marks – 2 Hours) (50% of GCSE 9-1)</li> <li>• Component 2 (1DT/02): Iterative Design Challenge – Non-exam Assessment (100 Marks - Approx. 40 hours) (50% of GCSE 9-1)</li> </ul>
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