

Subject	Y10 Threshold Knowledge – Autumn/Spring/Summer term	How to support students' learning
Tech – Textiles	<p><b>Autumn/Spring/Summer Term</b></p> <ol style="list-style-type: none"> <li>1. Understand the properties of materials.</li> <li>2. Recognise the importance of selecting materials based on their properties.</li> <li>3. Identify a range of mechanical devices used in design.</li> <li>4. Understand how levers can be used in design.</li> <li>5. Understand how structures are developed to respond to different forces and stresses.</li> <li>6. Use a range of drawing techniques to communicate design ideas.</li> <li>7. Know how timber-based materials are cut, shaped and formed.</li> <li>8. Work safely to produce a functional product.</li> <li>9. Ensure precision and accuracy by working within tolerances.</li> <li>10. Use applied mathematics to mark out successfully.</li> <li>11. Know how metal-based materials are cut, shaped and formed.</li> <li>12. Recognise a variety of energy sources and how these are used in production.</li> <li>13. Know how a system works using a range of inputs and outputs.</li> <li>14. Identify a range of designers and the factors which effect design.</li> <li>15. Understand the role of ergonomics and anthropometrics in design.</li> <li>16. Create a prototype to test a design idea.</li> <li>17. Think iteratively to develop design ideas.</li> <li>18. Understand commercial properties and scales of production.</li> <li>19. Recognise how a finish can be used to improve a materials property.</li> <li>20. Understand the environmental, social and economic factors that affect design.</li> </ol>	<ul style="list-style-type: none"> <li>• Transfer mark making skills into stitches</li> <li>• <a href="https://www.textileartist.org/transforming-mark-making-into-stitch/">https://www.textileartist.org/transforming-mark-making-into-stitch/</a></li> <li>• Study designers and artists to influence your work</li> <li>• <a href="https://www.tate.org.uk/art/art-terms/r/researching-artists">https://www.tate.org.uk/art/art-terms/r/researching-artists</a></li> <li>• Adapt images to line work in textile design</li> <li>• <a href="https://www.textileartist.org/creating-line-work-for-embroidery/">https://www.textileartist.org/creating-line-work-for-embroidery/</a></li> <li>• Use cultural/social influences in design</li> <li>• <a href="https://www.vam.ac.uk/articles/exploring-culture-through-textiles">https://www.vam.ac.uk/articles/exploring-culture-through-textiles</a></li> <li>• Create an embroidery sampler of stitches <a href="https://www.sewing.org/html/sampler.html">https://www.sewing.org/html/sampler.html</a></li> <li>• Apply colour theory to select complementary colours <a href="https://www.colormatters.com/color-and-design/basic-color-theory">https://www.colormatters.com/color-and-design/basic-color-theory</a></li> <li>• Use first-hand photography for inspiration</li> <li>• Critically self-evaluate and refine</li> <li>• <a href="https://www.studentartguide.com/articles/evaluating-artwork">https://www.studentartguide.com/articles/evaluating-artwork</a></li> <li>• Annotate research and link to theme</li> <li>• Link: <a href="https://www.studentartguide.com/articles/how-to-annotate-an-art-sketchbook">https://www.studentartguide.com/articles/how-to-annotate-an-art-sketchbook</a></li> </ul>

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