

## Y9 D&T (including Fashion & Textiles)

	Spring 1	Spring 2	Summer 1	Summer 2
<b>Topics</b>	<b>Unit 1</b> <b>AO1 Investigate</b> <ul style="list-style-type: none"> <li>Research – Innovation Challenge Theme ‘Summer Outdoor Event’- Mind Map</li> <li>Identify User Needs</li> <li>Existing Product Analysis</li> </ul> <b>A02 Design</b> <ul style="list-style-type: none"> <li>Design Brief/ Criteria</li> <li>Initial Designs</li> <li>Design development</li> </ul> <b>A03 Technical skills</b> <ul style="list-style-type: none"> <li>Sampling- Traditional and modern techniques</li> <li>Machine Skills</li> </ul> <b>A04 Test and Evaluate</b> <ul style="list-style-type: none"> <li>Identify strengths and weaknesses of Design development</li> <li>Overall Evaluation</li> </ul>	<b>Unit 2</b> <b>A01: Investigate</b> <ul style="list-style-type: none"> <li>Design Strategies</li> <li>Commercial Processes</li> <li>SMES</li> </ul> <b>A02 Design</b> <ul style="list-style-type: none"> <li>Final Design</li> </ul> <b>A03 Technical skills</b> <ul style="list-style-type: none"> <li>Technical Drawing</li> <li>Product Specification</li> <li>Commercial Patterns/ Templates</li> <li>Material properties</li> <li>CAD/ CAM</li> <li>Components</li> </ul> <b>A04 Test and Evaluate</b> <ul style="list-style-type: none"> <li>Identify strengths and weaknesses</li> <li>Identify strengths and weaknesses final design</li> <li>Evaluate against Specification</li> </ul>	<b>Unit 3</b> <b>A01- Investigate</b> <ul style="list-style-type: none"> <li>Review Material Properties</li> <li>Smart Materials</li> <li>Methods of Production</li> <li>Safe working practice</li> </ul> <b>A03 Technical skill</b> <ul style="list-style-type: none"> <li>Economic Lay Plan</li> <li>Marking out</li> <li>Cutting</li> <li>Production Plan</li> <li>Construction</li> </ul> <b>A04 Test and Evaluate</b> <ul style="list-style-type: none"> <li>Identify strengths and weaknesses of Design development</li> <li>Identify strengths and weaknesses of sample</li> <li>Overall Evaluation</li> </ul>	<b>Unit 4</b> <b>AO1 Investigate</b> <ul style="list-style-type: none"> <li>Surface treatments and finishes</li> <li>Methods of testing</li> </ul> <b>A03 Technical skills</b> <ul style="list-style-type: none"> <li>Advanced Machine Skills</li> <li>Finishing</li> <li>Styling/ Packaging</li> </ul> <b>A04 Test and Evaluate</b> <ul style="list-style-type: none"> <li>Identify strengths and weaknesses of final outcome</li> <li>Identify strengths and weaknesses of sample</li> <li>Evaluate against Product Specification</li> </ul>
<b>Assessment</b>	Final Outcomes and Book work Knowledge Checks End of Unit Assessment	Final Outcomes and Book work Knowledge Checks End of Unit Assessment	Final Outcomes and book work Knowledge checks End of Unit Assessment	Final Outcomes and book work Knowledge Checks End of year Exam
<b>Arts Mark</b>	Popular Cultural Influences Innovative Designers Methods of Illustration	Pattern/ Templates	Fashion garment construction/ joining/ Bonding	Finishes including decorative finishes

<b>Building on prior learning</b>	Work in Year 9 will build on knowledge and skills gained at KS3 Students will be developing their key skills in designing, modelling, manipulate a range of materials, sample processes and techniques. Students will have the opportunity to use CAD and CAM.
Enrichment within the Curriculum	D&T Ambassadors STEM Competitions Young Designer
<b>Extracurricular opportunities</b>	Upskilling Workshops
<b>Positive impacting on personal development (SMSC)</b>	SMSC: Recycling, sustainability Building higher level practical skills. Promoting independence during practical lessons
<b>Preparing for the next stage of education</b>	Key skills learned will be built on in Year 10 Remaining course content will be covered in Year 10.
<b>Ways to support your child's learning</b>	Praise for effort rather than being 'clever' shows them that by working hard they can always improve
Visits and trips Websites / books / papers / magazines TV/Films Blogs/ podcasts	Download SketchUp Make (free CAD download for students). Continue to develop design skills at home. Encourage independent research and revision.