

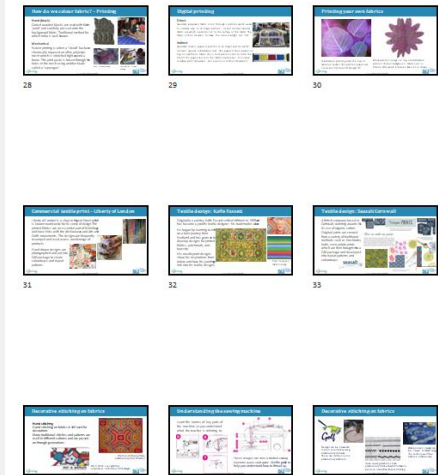
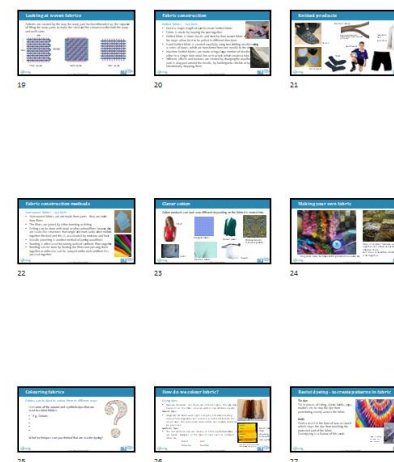
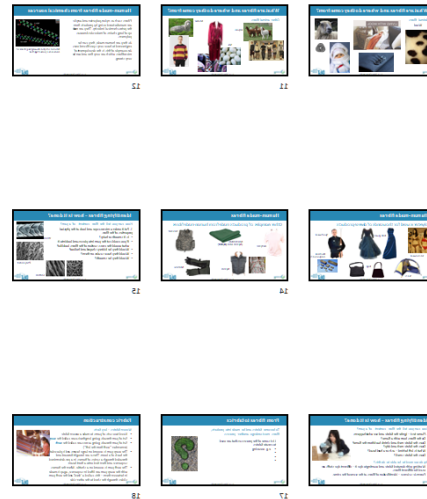
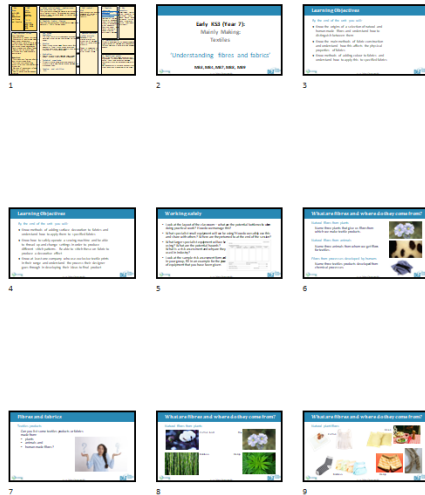
**Students to learn:**

- Where fabrics come from and how fabrics are made.
- How to hand stitch and use a sewing machine safely
- How to construct a 3D item using a pattern
- How to attach a fastening

<b>1. Key Stage</b>  <b>Early KS3 Year 7</b>  <b>Understand ing fibres and fabrics</b>	<b>2. D&amp;T focus</b>  <b>Mainly making</b>  <b>Textiles</b>  <b>P.O.S coverage</b>  <b>MR3 MR4</b>	<b>4. What could students design/make, and who may use them?</b>  The practical outcome of this module is not intended to be a finished product. The emphasis is on learning a range of skills that can be applied to their own work in	<b>5. Unit context / brief</b>  Understanding and applying knowledge of textiles in developing ideas for products.	<b>9. Possible resources</b>  <u>Fibre to Fabric: Textiles processes</u>  <u>21<sup>st</sup> Century Smart and Technical Textiles</u>  Samples of textiles.  Photos or samples of items from nature and products developed by other designers.  Sketching paper, wool, fabric remnants	<b>10. Key vocabulary</b>  Human-made, natural, fibres, polyester, nylon, microfiber, cotton, alpaca, merino, woven, non-woven, knitted, dyeing, sublimation printing, colourways, embroidery.
<b>3. Key learning in D&amp;T</b>  <b>Prior learning</b> <ul style="list-style-type: none"><li>• Experience of sewing techniques.</li><li>• Experience of appropriate computer-aided design applications.</li><li>• Understand that a 3-D textile product can be made from a combination of accurately made pattern pieces, fabric shapes and different fabrics.</li><li>• Fabrics can be strengthened, stiffened and reinforced where appropriate.</li></ul> <b>Understand</b> <ul style="list-style-type: none"><li>• The origins and features of natural and human-made fibres.</li><li>• The main methods of fabric</li></ul>	<b>7. D&amp;T areas</b> <ul style="list-style-type: none"><li>• <b>Designing</b><ul style="list-style-type: none"><li>• The main focus is on understanding a range of materials' properties and how they might be used in design.</li></ul></li><li>• <b>Making</b><ul style="list-style-type: none"><li>• Opportunities include making fabrics through felting, weaving or finger knitting, dyeing and printing, surface decoration, making a product using a sewing machine or through hand crafting.</li></ul></li><li>• <b>Evaluating</b><ul style="list-style-type: none"><li>• Existing products and materials used in textiles design, including understanding sustainability.</li></ul></li><li>• <b>Technical knowledge</b><ul style="list-style-type: none"><li>• Students should explore how other designers' products were manufactured and the materials and processes used.</li></ul></li><li>• <b>Cooking and nutrition</b><ul style="list-style-type: none"><li>• N/A</li></ul></li></ul>	<b>8. Related learning in other subjects</b> <ul style="list-style-type: none"><li>• <b>Science</b> – the characteristics and properties of materials used in a range of textiles products.</li><li>• Speak to colleagues to see how this can fit into other subject areas.</li></ul>	<b>11. Characteristics</b>  Students will develop an increased knowledge and understanding of materials and the application of CAD and machining in generating and developing designs.	<b>12. Health and safety</b>  Safe practice using textiles equipment and processes. Students should be taught to work safely, using tools, equipment, materials, components and techniques appropriate to the task.  Risk assessments should be carried out prior to undertaking and practical work in this project.	

By the end of the unit students will:

- Know the origins of a selection of natural and human-made fibres and understand how to distinguish between them
- Know the main methods of fabric construction and understand how this affects the physical properties of fabrics
- Know methods of adding colour to fabrics and understand how to apply this to specified fabrics
- Know methods of adding surface decoration to fabrics and understand how to apply them to specified fabrics
- Know how to safely operate a sewing machine and be able to thread up and change settings in order to produce different stitch patterns. Be able to stitch these on fabric to produce a decorative effect
- Know at least one company who use exclusive textile prints in their range and understand the process their designer goes through in developing their ideas to final product



Unit 1											
Week	1	2	3	4	5	6	7	8	9		
<b>Big Ideas (key concepts)</b>	To understand the structure of this year's lessons. To become familiar with the expectations and routines in the DT room. To understand fabrics begin as fibres	To understand 3 different methods of fabric construction	To understand a range of decorative techniques	To understand how to complete a sample of applique	To use decorative techniques - transfer crayons	To use decorative techniques – fabric pens and embroidery	To use decorative techniques – tie dye & embroidery	To use decorative techniques - Stencil & fabric paint	To know how to use a sewing machine.	To understand how to select appropriate materials and fabrics for your design.	To understand how to complete a full evaluation using ACCESSFM and know how this will help you with future products.
<b>Lesson Topics Sequence</b>	Introduction to DT lessons and explanation of expectations and safety in the DT room. Starter – where do fabrics come from? Expectations Natural, synthetic and regenerated fibres, students to mind map. Watch video clips Review questions	KO stater LO and recap How fibres become a fabric, demonstrate spinning a yarn. Fabric construction – woven, knitted, bonded, complete worksheet Begin creating own woven fabric Review questions	KO stater LO and recap Complete weaving from last lesson Explanation of applique, embroidery, sewing on a button, dying fabric. Practise threading a needle Review questions	KO stater LO and recap Demonstration of applique Students begin applique sample Review questions	KO stater LO and recap Demonstration of transfer crayons Students produce sample Review questions	KO stater LO and recap Demonstration of fabric pens Students produce sample Review questions	KO stater LO and recap Demonstration of tie-dye Students produce sample Review questions	KO stater LO and recap Demonstration of applique Students begin stencil and fabric paint Review questions	KO self quizzing LO and recap Demonstration of how to use a sewing machine, driving test Begin to sew panels together for cushion/pillow Review questions	KO self quizzing LO and recap Demonstration of how to use a sewing machine, driving test Begin to sew panels together for cushion/pillow Review questions	KO self quizzing LO and recap Demonstration of how to use a sewing machine, driving test Begin to sew panels together for cushion/pillow Review questions Completion of evaluation Review questions.
<b>Key Resources</b>	Power point Worksheets	Power point Wool for yarn Worksheets	Power point Wool/fabric weaving Needle and thread	Power point Sewing kits Fabric for applique sample	Power point Sewing kits Transfer crayons	Fabric pens Sewing kits Fabrics for applique	Tie-dye kits Sewing kits Fabrics	S sticky vinyl Fabric paint Paint brushes Fabric Scissors	Power point Sewing machines Design sheets Fabrics for applique	Power point Sewing machines Design sheets Fabrics for applique	Power point Sewing machines Design sheets Finished product
<b>Key learning and skills</b>	What fibres are 3 types of fabric – natural, synthetic, regenerated	What fibres are 3 types of fabric – natural, synthetic, regenerated	Range of decorative techniques Decorative techniques Finishing techniques Selecting suitable fabrics and materials						To know how to use a sewing machine	Decorative techniques Finishing techniques To know how to use a sewing machine	How to complete a full evaluation.

					Selecting suitable fabrics and materials	
--	--	--	--	--	--	--