

Golden Threads	Enrichment	Review and Evaluation
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	Topics & Substantive Knowledge	Disciplinary Knowledge	Assessment	Misconceptions	Key Vocabulary	Knowledge Tracking
Term 1	<p>Introduction to the Y12 DT: Fashion and Textiles course structure.</p> <p>Introduction to Y12 NEA contextual challenges set by classroom teacher. This is a practice NEA in preparation for the Y13 NEA.</p> <p>Students to choose one of the 7 contextual challenges and begin to Identify, investigate & outline design possibilities (A01/A)</p> <p>Independent research (Week 1-5) to include primary and secondary investigations.</p> <p>Week - 6 Producing a design brief and specification (A01/B)</p> <p>Week 7 – Students to start A02/C Development of design proposal(s) focusing on initial design ideas.</p> <p>Identifying and investigating design possibilities</p> <p>A wide variety of initial investigations to include primary and secondary resources.</p> <p>Client profiles and interviews.</p> <p>Designer research, Context research, looking at the work of others etc.</p> <p>Producing a design brief and specification (A01/B)</p> <p>A02/C Development of design proposal(s)</p> <p>To demonstrate a wide range of creative initial design ideas to include client feedback and annotation.</p>		<p>Ongoing informal assessment and feedback.</p> <p>Verbal feedback</p> <p>Termly whole group generic written feedback</p>	<p>Understanding what a contextual challenge is.</p> <p>Understanding contextual problems and how to design to solve a contextual problem.</p> <p>The difference between primary and secondary research.</p> <p>Examples of primary research eg visits to exhibitions, galleries, shops etc.</p> <p>Understanding client needs and how to design with a client in mind. Avoiding designing for themselves or personal interest.</p> <p>The value of client feedback and using feedback to develop design ideas.</p>	<p>Identify</p> <p>Investigate</p> <p>design brief</p> <p>Specification</p> <p>Prototype</p> <p>Designer</p> <p>Primary research</p> <p>Secondary research</p> <p>Contextual challenge</p> <p>First concepts</p> <p>Practical experimentation</p> <p>Disassembly</p> <p>Modelling</p> <p>Patterns</p> <p>CAD</p> <p>CAM</p> <p>Communication</p> <p>Project management</p> <p>Evaluation</p> <p>Testing</p> <p>design thinking</p> <p>proposed client/user</p>	

	Topics & Substantive Knowledge	Disciplinary Knowledge	Assessment	Misconceptions	Key Vocabulary	Knowledge Tracking
Term 1 (cont)	<p>Theory</p> <p>Materials and their Applications (1.1)</p> <p>Classification of materials</p> <p>Natural fibres</p> <p>Manufactured fibres</p> <p>Shape Formation</p> <p>Fibre Production</p> <p>Smart materials</p> <p>Technical Textiles</p> <p>Modern materials</p> <p>Methods of investigating and testing materials</p> <p>Physical and mechanical properties, working characteristics, function & aesthetics. Cost. Manufacture & disposal.</p> <p>Plant/cellulose: cotton, linen, ramie Animal/protein: wool, silk Hair Fibres: Cashmere, Mohair, Angora</p> <p>Regenerated fibres: viscose, acetate New generation Lyocells: Modal, Tencel, Lyocell</p> <p>Synthetic Fibres: polyamide (nylon), polyester, acrylic, elastomeric fibres,</p> <p>Awareness of a range of different smart fabrics, e.g. reactive materials, photochromic dyes, phase changing materials.</p> <p>The definition of the term technical textiles. Understanding of a range of technical</p> <p>Textiles eg phosphorescent, microencapsulated fibres and fabrics,</p> <p>Students should be able to explain the shape and formation of fibres. They should understand and be able to discuss the different cross-sectional and linear formation of of fibres eg formation of wool fibres compared to synthetic nylon fibres.</p> <p>Students must understand how workshop tests are set up and what will be tested, measured and compared. Flammability, crease resistance, shrink resistance, colour fastness, strength and pilling.</p>		<p>Weekly exam questions.</p> <p>Termly mini assessments</p> <p>Teacher and self-assessments.</p>		<p>Physical properties</p> <p>mechanical properties</p> <p>working characteristics</p> <p>function</p> <p>Aesthetics</p> <p>Cost</p> <p>Manufacture</p> <p>disposal.</p> <p>Plant/cellulose</p> <p>Protein</p> <p>Regenerated fibres</p> <p>Synthetic Fibres</p> <p>smart fabrics</p> <p>technical textiles.</p> <p>workshop tests</p> <p>Flammability</p> <p>crease resistance</p> <p>shrink resistance</p> <p>colour fastness,</p> <p>strength</p> <p>pilling.</p>	



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Term 2	<p>Week 8-14 – Students to work on A02/C Development of design proposal(s)</p> <p>A02/C Development of design proposal(s)</p> <p>Developed design ideas.</p> <p>Investigative work on surface decoration and garment construction.</p> <p>Fabric choice</p> <p>Modelling and prototyping</p> <p>Final proposal</p>		<p>Ongoing informal assessment and feedback.</p> <p>Verbal feedback.</p> <p>Termly whole group generic written feedback.</p>	<p>That design ideas can be produced in a wide variety of different mediums using different methods.</p> <p>The value of critical analysis and using findings to develop design ideas.</p> <p>Making sure practical investigations are relevant and valid.</p> <p>Having the knowledge to understand how garments are constructed and using this knowledge when designing.</p> <p>Understanding the importance of fabric choice.</p>	<p>Identify</p> <p>Investigate design brief</p> <p>Specification</p> <p>Prototype</p> <p>Designer</p> <p>Primary research</p> <p>Secondary research</p> <p>Contextual challenge</p> <p>First concepts</p> <p>Practical experimentation</p>	<p>Disassembly</p> <p>Modelling</p> <p>Patterns</p> <p>CAD</p> <p>CAM</p> <p>Communication</p> <p>Project management</p> <p>Evaluation</p> <p>Testing</p> <p>design thinking</p> <p>proposed client/user</p>	
	<p>Theory</p> <p>Performance characteristics of materials (1.2)</p> <p>Yarn Production</p> <p>Mixture and Blends</p> <p>Fabric Manufacture</p> <p>Performance Characteristics of Woven Fabrics</p> <p>Performance Characteristics of Knitted Fabrics</p> <p>Performance Characteristics of Non-woven Fabrics</p> <p>Fibre properties</p> <p>Fabric qualities</p> <p>Carding, spinning</p> <p>Understand that fibres need to be made into yarns to manufacture woven and knitted fabrics.</p> <p>The importance of twist in relation to strength and bulk of yarn.</p> <p>Students should be aware of the need to blend fibres to create aesthetic effects, performance fabrics, improved care and maintenance of fabrics.</p> <p>Knowledge of the structure of the main construction methods and the differences between them.</p> <p>Understanding of the qualities given to the fabrics by the construction methods, including typical end-uses.</p>		<p>Weekly exam questions.</p> <p>Termly mini assessments</p> <p>Teacher and self-assessments.</p>		<p>Strength</p> <p>extensibility</p> <p>elasticity</p> <p>fineness</p> <p>electrostatic charge</p> <p>lustre</p> <p>thermal insulation</p> <p>flammability</p> <p>moisture absorption</p> <p>shrinkage</p> <p>Strength</p> <p>durability</p> <p>elasticity</p> <p>flammability</p> <p>thermal qualities</p> <p>Effects creasing</p> <p>absorption</p> <p>stretch</p> <p>formability</p> <p>handle</p>	<p>drape</p> <p>weight</p> <p>pattern repeat</p> <p>directional pile</p> <p>nap</p> <p>texture</p> <p>lustre</p> <p>Plain (Tabby) weave fabrics</p> <p>Twill weave fabric</p> <p>Satin weave fabrics</p> <p>Three yarn system weave</p> <p>Brocade and Jacquard fabrics</p> <p>Special Woven</p>	



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Term 3	<p>Week 15-20</p> <p>Students to work on A02/D Development of design prototype(s)</p> <p>Practical outcome</p> <p>A02/D Development of design prototype(s)</p> <p>Students will spend 6-8 weeks producing a final outcome for their Y12 practice NEA. Practical skills.</p> <p>Given the level of this qualification it is expected that the student will demonstrate their practical skills to a high level using all the potential resources, tools, machines and equipment at their disposal.</p>		<p>Ongoing informal assessment and feedback.</p> <p>Verbal feedback.</p> <p>Termly whole group generic written feedback</p>	<p>Ensuring they understand a wide variety of different construction techniques to ensure they select the correct methods when making their garments.</p> <p>Ensuring they understand a wide variety of surface decoration to ensure they select the correct methods when making their garments.</p> <p>Knowing what is meant by high quality practical outcomes that meet the requirements of A-Level.</p> <p>Selecting the correct components and using the correct finishing techniques.</p>	<p>Identify</p> <p>Investigate</p> <p>design brief</p> <p>Specification</p> <p>Prototype</p> <p>Designer</p> <p>Primary research</p> <p>Secondary research</p> <p>Contextual challenge</p> <p>First concepts</p> <p>Practical experimentation</p> <p>Disassembly</p> <p>Modelling</p> <p>Patterns</p> <p>CAD</p> <p>CAM</p> <p>Communication</p> <p>Project management</p> <p>Evaluation</p> <p>Testing</p> <p>design thinking</p> <p>proposed client/ user</p>	
	<p>Theory</p> <p>Methods of joining fabrics and use of components (1.3)</p> <p>The use of Fabric Finishes (1.4)</p> <p>Enhancement of Materials (1.5)</p> <p>Seam</p> <p>Threads</p> <p>Fusible Fleece</p> <p>Components: Candidates should have knowledge of a variety of components and their appropriateness for a range of products in relation to the end-user, fabric and design considerations.</p> <p>Fastenings</p> <p>Trims</p> <p>Components and e-components and their appropriateness for a range of products.</p> <p>Interfacing, underlings, linings and interlining.</p> <p>Knowledge of the effects of finishes and the reasons they are needed in relation to the fibre/fabric properties and end use of the product. Detailed knowledge of the chemicals involved and methods of application is not required.</p> <p>Surface Decoration - Dyeing methods</p> <p>Surface Decoration -</p> <p>Printing methods</p> <p>Embroidery, Quilting</p>		<p>Weekly exam questions.</p> <p>Termly mini assessments</p> <p>Teacher and self-assessments.</p>		<p>Seam</p> <p>Threads</p> <p>Fusible Fleece</p> <p>Components</p> <p>Fastenings</p> <p>Trims</p> <p>Components</p> <p>e-components</p> <p>Interfacing, underlings, linings and interlining.</p> <p>Surface Decoration</p> <p>Dyeing methods</p> <p>Surface Decoration -</p> <p>Printing methods</p> <p>Embroidery</p> <p>Quilting</p>	



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Term 4	<p>Week 21-26</p> <p>Students to work on A02/D Development of design prototype(s)</p> <p>Students to work on A03/E Analysing and evaluating</p> <p>A02/D Development of design prototype(s)</p> <p>Manufacturing specification. Manufacturing planning/ Working drawing. Diary of production.</p> <p>A03/E Analysing and evaluating final outcomes, client feedback, specification evaluation.</p>			<p>The difference between design specifications and manufacturing specifications.</p> <p>The need for manufacturing plans to create high quality outcomes.</p> <p>Understanding the importance of analysing and evaluating – making constant reference to their client and working towards their needs.</p> <p>Understanding that product development doesn't stop once a prototype has been made and that further improvements should always be available.</p>	<p>Identify</p> <p>Investigate</p> <p>design brief</p> <p>Specification</p> <p>Prototype</p> <p>Designer</p> <p>Primary research</p> <p>Secondary research</p> <p>Contextual challenge</p> <p>First concepts</p> <p>Practical experimentation</p> <p>Disassembly</p>	<p>Modelling</p> <p>Patterns</p> <p>CAD</p> <p>CAM</p> <p>Communication</p> <p>Project management</p> <p>Evaluation</p> <p>Testing</p> <p>design thinking</p> <p>proposed client/ user</p>	
	<p>Theory</p> <p>Modern Industrial and Commercial Practice(1.6)</p> <p>Digital Design and Manufacture (1.7)</p> <p>Health and Safety (1.9)</p> <p>Design Communication (1.14)</p> <p>How Technology & Cultural Changes can Impact the Work of Designers (2.3)</p> <p>Social, Moral and Ethical Issues</p> <p>Responsible Design (2.8)</p> <p>Scales of production: One-off (bespoke), Batch production, Mass/Line production.</p> <p>The use of computer systems</p> <p>Sub-assembly</p> <p>Safe working practices</p> <p>Safety in products and services to the consumer</p> <p>Designers and their work</p> <p>Socioeconomic influences</p> <p>Environmental Issues</p>		<p>Weekly exam questions.</p> <p>Termly mini assessments</p> <p>Teacher and self-assessments.</p>		<p>One-off</p> <p>Bespoke</p> <p>Batch</p> <p>Mass production</p> <p>Line production</p> <p>CAD</p> <p>CAM</p> <p>Sub assembly</p> <p>Paul Poiret</p> <p>Chanel</p> <p>Dior</p> <p>Mary Quant</p> <p>Yves St Laurent</p> <p>Pierre Cardin</p> <p>Vivienne Westwood</p> <p>Alexander McQueen</p>	<p>Health and Safety at Work Act (1974), COSHH, BSI (British Standards Institute) Safety symbols, Lion Mark.</p>	