

Textiles Year 10	Textiles Year 11
<u>Autumn Term</u> Topics and specific knowledge Introduction to sewing machines and practical skills. Students will experiment with addition processes whilst designing and making a bag, exploring pattern cutting, construction and overlocking. • Batik • Block print • Tye dye • Repeat prints • Applique • Natural fibres • Synthetic fibres • Knitted, woven and non-woven textiles • Blended and mixed fibres • One off/batch/mass production Key concepts Sustainable futures- Commercial techniques Planning- Design of bag, awareness and application of health and safety, knowledge of materials, tools and processes, time management of tasks Material- Appropriate selection of fibres, application of health and safety.	<u>Autumn term</u> Start NEA • Analysis of contextual challenges and identifying a problem or opportunity. • Writing a Design Brief and Specification • Carrying out primary and secondary research • Drawing creative ideas that meet the brief • Making simple models to experiment with solutions <u>Other knowledge</u> Mechanical systems (cams, gears, levers...) Key Concepts Creativity – developing ideas for brief Planning- of making Materials – fabrics for modelling Specific skills Research skills ICT skills Analytical and evaluative skills Communication skills Practical skills

Specific skills • Practical skills • Drawing skills • Communication skills • Teamwork • Research skills	
<u>Spring term</u> Topics and specific knowledge Students will progress their understanding of how textiles can be used alongside other materials, CAD/CAM techniques will also be explored. • Learning about different materials • Iterative design • Freehand sketching of ideas in 2D and 3D • 3D formal drawing (oblique, isometric, perspective) • Use of CAD/CAM within textiles including 3D printing • Industrial production processes Key Concepts Materials- Fabrics, woods, metals and plastics Sustainable futures- Production processes Analysis- Analysing products and fabrics, suggesting improvements to own work. Resilience.	<u>Spring term</u> Continue and finish NEA • Choose best idea to develop through evaluation of first concepts • Make more detailed and refined models to develop ideas • Create detailed drawings to aid in manufacturing the final outcome • Select appropriate materials and components • Manufacture final design using workshop tools • Apply quality control checks to ensure a high quality outcome • Evaluate progress throughout the development of the design and at the end of the project <u>Other knowledge</u> General properties of materials such as toughness, strength...

Specific Skills • Drawing skills • Teamwork • Practical skills • Research skills • Communication skills • ICT skills	Key concepts Planning & Materials- planning of outcomes, making of garments etc. Analysis – analysing and evaluating NEA. Specific skills • Practical skills • ICT skills • Independence • Evaluative skill
<u>Summer term</u> Topics and specific knowledge Students will be issued with a design brief for a mini NEA (non-examined assessment). They will need to create a written folder which will include a specification, client focus, research and evaluation as well as a final product. - Primary and secondary research - Material types and knowledge - Ergonomics and anthropometrics - Eco issues - Working with a variety of materials Key concepts Planning- Awareness and application of health and safety, knowledge of materials, tools and processes, time management of tasks. Ability to work independently. Material- Appropriate selection of fibres, application of health and safety.	<u>Summer term</u> The following topics might have been briefly covered earlier in Y10/11 but will be covered in more depth during this term: • Energy generation and storage • Electronics and systems • Papers and boards • Textiles – inc. fire retardants • New materials • New technologies and impact on industry, society and environment <u>Exam Preparation</u> • Revision of all topics – use Collins revision guide as a structure • Practice papers • Exam technique – keywords and strategies • Online quizzes

Specific skills

- Drawing skills
- Teamwork
- Practical skills
- Research skills
- Communication skills

Key concepts

Planning – revision

Creativity – revision strategies

Specific skills

- Exam resilience
- Revision strategies