

Year	Term 1	Term 2	Term 3
9	<p>Textiles: Practical: Purse Project (duration 7 weeks)</p> <ul style="list-style-type: none"> • How to analyse a Brief • Exploring designer Matthew Williamson • Building confidence on sewing machines • Understanding Seams, construction, and decorative techniques • Inserting a zip <p>Theory:</p> <ul style="list-style-type: none"> • Woven, non woven & knitted fabrics <ul style="list-style-type: none"> - Laminated & coated fabrics - Fabric specification - Fibres - Spinning - Fancy Yarns - Quilting - Ecological and social footprint - Life cycle • Specialist Techniques & processes <ul style="list-style-type: none"> - Tools & equipment, - Pattern cutting, - cutting tools - seam construction - types if Seams - Methods of adding body and shape - Edge finishes 	<p>Textiles: Practical: Purse project completion (2 weeks)</p> <ul style="list-style-type: none"> • Construction of basic shapes <p>Practical: Educational Toy (duration 4 weeks) Understanding the design process</p> <ul style="list-style-type: none"> • Analysing of brief • Writing out a clear measurable specification • Focused research tailored to brief • Styles of designing • Understanding how produce high quality designs • Decorative Technique exploring <p>Theory:</p> <ul style="list-style-type: none"> • Manufacturing to different scales of production <ul style="list-style-type: none"> - One off, bespoke or job production - Batch production - Mass Production - Manufacturing systems • CAD/CAM • Surface treatment & finishes 	<p>Textiles: Practical Project: Educational Toy (6 weeks)</p> <ul style="list-style-type: none"> • Finalising design idea • Modelling of product • Working drawing of model and understanding what needs to be included • Construction of product in one method of production <p>Theory:</p> <ul style="list-style-type: none"> • Stock forms, types & sizes <ul style="list-style-type: none"> - Stock forms - Common fabric names - Standard components - Cost and Quantities • Selection of materials & components <ul style="list-style-type: none"> - Mechanical & physical finishes - Chemical finishes - Biological finishes • The impact of forces & stresses <ul style="list-style-type: none"> - Reinforcing and stiffening textiles
10	<p>Textiles: <i>(Alternating - 1 week Theory, 1 week Practical)</i> Practical: Skirt project (duration 7 weeks)</p> <ul style="list-style-type: none"> • Investigating and exploring Design Movements • Exploring styles of skirt & how they are constructed • Identifying a new range of decorative and construction techniques • Understanding block patterns and why we use them • Decorating of fabric whilst mimicking our designs <p>Theory: Section 1 Design & Technology and our world</p> <ul style="list-style-type: none"> • Impact of emerging & technologies • Critical evaluation of new & emerging • Energy Generated <p>Section 2 Smart Materials</p> <ul style="list-style-type: none"> • Smart Materials 	<p>Textiles: Practical Project: Skirt Project completion (2 weeks)</p> <ul style="list-style-type: none"> • High quality construction of skirt • Exploring styles of finishes. <p>Practical Project: Bodice Project (duration 4 Weeks)</p> <ul style="list-style-type: none"> • Investigating and exploring a new Designer: Alexander McQueen • Designing through modelling • Developing & finalising designs from modelling/ prototyping • Cutting of material and understanding of construction • Decorating fabric with the influences of Alexander McQueen <p>Theory: Section 3 Electronic Devices</p> <ul style="list-style-type: none"> • Electronic Control systems • Programmable Systems <p>Section 4 Mechanical Devices</p> <ul style="list-style-type: none"> • Types of motion • Types of systems 	<p>Textiles: Practical Project: Bodice Project (6 weeks)</p> <ul style="list-style-type: none"> • Manipulating and Decorating fabric with the influences of Alexander McQueen • Constructing bodice with a variation of seam styles, finishes and fastenings. <p>After May half term students will start their NEA, a design & make task which makes up 50% of their final grade.</p> <p>Theory: Section 5 Materials & their working properties</p> <ul style="list-style-type: none"> • Papers & Boards • Natural & manufactured boards • Ferrous & Non-Ferrous metals • Thermoforming & Thermosetting polymers • Fabrics & Fibres <p>Introduction of NEA</p>

	<ul style="list-style-type: none"> Composites Technical Textiles 	<ul style="list-style-type: none"> Types of Components 	
11	<p><i>(Alternating - 1 lesson Theory, 1 lesson NEA)</i></p> <p>Practical: NEA Section 2 – Design & Development Section 3 – Manufacture</p> <p>Theory: Revisiting & revising topics related to the NEA which could also come up in the exam (e.g. moral, social & environmental considerations in design.)</p>	<p>Practical: NEA Section 3 – Manufacturing Section 4 – Evaluation</p> <p>Theory: Revision & Exam practice in preparation for Summer exam</p>	Revision & Exam practice