



		Autumn Term		Spring Term		Summer Term	
Year 10	<p>Topic Overview</p>	<p>Bag project; Create a range of bag drawings based on the Chanel exhibition that will incorporate a wide range of material areas. They will be introduced to: Timbers, Polymers and Metals, Levers and linkages, forces and stresses, manufacturing processes of each material, CAD and have the opportunity to create a part of the bag that links to these areas.</p>	<p>Bag project continued and one off Christmas project; Develop their own templates, patterns markings and apply all the skills learnt in year 9 to creating the bag, implementing new skills for other material areas. They will be expected to; produce a prototype whilst keeping a diary of making and noting problems encountered, development of the use of a flowchart and manufacturing specification in preparation for year 11 coursework. Theory work will be ongoing to back up this understanding continuing to link to material areas.</p>	<p>Mini projects/ E-Textiles: Pupils will be expected to create mini projects that cover remaining material areas one being brooch/ keyring linked to day of the dead or another related cultural celebration at this time of year. The final one will be papers and boards which could include forms of packaging or model making linked to Textiles. They will be expected to; work with a different material and incorporate conductive threads, LED's and a switch with the brooch/ keyring project.</p>	<p>Fabrics and Fibres; Final push on finishing material areas within the curriculum, social, ecological, cultural and ethical impact on decisions, surface treatments and finishes including screen printing, They will be expected to: Complete the last few areas of theory linked to mini makes. There will be a screen-printing exercise that reinforces another surface treatment within Textiles.</p>	<p>New & emerging technologies, smart and composite materials; Recap on smart materials, and introduce composites as well as push and pull marketing, crowdfunding etc., , links with business studies, They will be expected to: Make notes on final topics and answer exam questions based on topics covered so far as a revision strategy.</p>	<p>Yr11 Coursework NEA: Exedcel will have provided the titles for choosing your NEA topic. Any material area can be considered at this stage but doesn't need to be decided upon until later in the year. They will be introduced to; the NEA topics from Edexcel. This will be a portfolio of approximately 23 pages of A3. This is the design and make task which counts as 50% of their final GCSE grade.</p>
	Disciplinary knowledge/skills	<p>V&A visit Research Designing Techsoft (CAD) Laser cutter (CAM) Interfacing/ Reinforcement/ linings Machine embroidery Specialist tools Key terminology Manufacturing processes Timbers Polymers Metals Levers</p>	<p>Continued skills from Aut 1 Overlocker Finishes Quality control Topstitching Under stitching Pockets Fastenings Sewing machine Hand tools Key terminology Maths links</p>	<p>E-Textiles Working with systems Papers and boards Key terminology</p>	<p>Fabrics & Fibres Areas not completed within specialist area Screen printing Block printing Chemical and mechanical finishes Key terminology</p>	<p>New and emerging technologies Smart and composite materials Crowdfunding Cooperative Forms of energy Key terminology</p>	<p>Identifying task Writing brief Analysing the task Research: Target market Materials Existing products Moodboard Design Specification</p> <p>The remainder of the coursework will be continued in Year11 (please see DT year 11- as this will be the one we're following)</p>