

## FOOD

Year	What content (units)?	Why this content now? Why this order?	What are the key skills practised?
7	<ul style="list-style-type: none"> <li>Healthy eating and nutrition</li> </ul>	<ul style="list-style-type: none"> <li>Underpins appropriate food choices.</li> </ul>	<ul style="list-style-type: none"> <li>Making and development of independence</li> <li>Evaluation/reflective thinking</li> </ul>
	<ul style="list-style-type: none"> <li>Rules and routines of the subject</li> </ul>	<ul style="list-style-type: none"> <li>Ensures pupils are able to work safely, respectfully and within the constraints of 1 hour lessons.</li> </ul>	
	<ul style="list-style-type: none"> <li>Evaluation skills</li> </ul>	<ul style="list-style-type: none"> <li>Pupils can describe dishes and are able to eloquently reflect and suggest improvements.</li> </ul>	
	<ul style="list-style-type: none"> <li>Basic practical skills, including: knife skills, baking, cooking pasta</li> </ul>	<ul style="list-style-type: none"> <li>Pupils can make a range of quality dishes suited to their ability and age</li> </ul>	
	<ul style="list-style-type: none"> <li>Planning</li> </ul>	<ul style="list-style-type: none"> <li>Demonstration that pupils can think ahead.</li> </ul>	
	<ul style="list-style-type: none"> <li>Food Science</li> </ul>	<ul style="list-style-type: none"> <li>Pupils can understand why ingredients are combined and the effect of this.</li> </ul>	
8	<ul style="list-style-type: none"> <li>Healthy eating and nutrition</li> </ul>	<ul style="list-style-type: none"> <li>Underpins appropriate food choices.</li> </ul>	<ul style="list-style-type: none"> <li>Making and further development of independence</li> </ul>
	<ul style="list-style-type: none"> <li>Evaluation skills</li> </ul>	<ul style="list-style-type: none"> <li>Pupils can describe dishes and are able to eloquently reflect and suggest improvements. Make comparisons</li> </ul>	
	<ul style="list-style-type: none"> <li>Developing skills, including: pastry making, bread doughs, independent making</li> </ul>	<ul style="list-style-type: none"> <li>Pupils can make a range of quality dishes suited to their ability and age. Demonstrate skill suited to individual ability</li> </ul>	
	<ul style="list-style-type: none"> <li>Researching suitable dish choices and planning</li> </ul>	<ul style="list-style-type: none"> <li>Pupils are able make choices and demonstrate that they can think ahead.</li> </ul>	
	<ul style="list-style-type: none"> <li>Food science with a specific focus on pastry</li> </ul>	<ul style="list-style-type: none"> <li>Pupils can understand why ingredients are combined and the effect of this.</li> </ul>	
	<ul style="list-style-type: none"> <li>Developing creativity and inquisivity in relation to food choices</li> </ul>	<ul style="list-style-type: none"> <li>Develop a positive relationship with food and a love of food.</li> </ul>	
9	<ul style="list-style-type: none"> <li>Food choices current dietary advice</li> </ul>	<ul style="list-style-type: none"> <li>Underpins appropriate food choices</li> </ul>	<ul style="list-style-type: none"> <li>Focus of work is to ensure that practical skills are well developed to take into adulthood.</li> </ul>
	<ul style="list-style-type: none"> <li>Evaluation skills</li> </ul>	<ul style="list-style-type: none"> <li>Pupils can predict and reflect on outcomes. Link to SMSC issues</li> </ul>	
	<ul style="list-style-type: none"> <li>Developing and practising wide range of practical skills</li> </ul>	<ul style="list-style-type: none"> <li>Pupils able to finish KS3 with a repertoire of nutritious dishes that they will be able to make in the future.</li> </ul>	
	<ul style="list-style-type: none"> <li>Researching suitable dish choices and planning</li> </ul>	<ul style="list-style-type: none"> <li>Pupils are able make choices and demonstrate that they can think ahead.</li> </ul>	

	<ul style="list-style-type: none"> <li>Practical independence</li> </ul>	<ul style="list-style-type: none"> <li>Able to follow a process to successfully manage time and resources to make a range of dishes</li> </ul>	
	<ul style="list-style-type: none"> <li>Awareness of a range of SMSC issues related to Food</li> </ul>	<ul style="list-style-type: none"> <li>Aware of the impact of the choices made and to be valuable members of society.</li> </ul>	
10	<ul style="list-style-type: none"> <li>Exemplify what creativity, complexity and challenge in practical work looks. Including visit to local restaurant.</li> </ul>	<ul style="list-style-type: none"> <li>Ensures that pupils are able to access the highest grades for making</li> </ul>	<ul style="list-style-type: none"> <li>Developing practical skills to the highest levels of creativity, complexity and challenge</li> <li>Ability to assimilate theory concepts and apply in practical work, reflective opportunities and examination scenarios.</li> <li>Preparation for GCSE NEA tasks</li> </ul>
	<ul style="list-style-type: none"> <li>Food, nutrition and health</li> </ul>	<ul style="list-style-type: none"> <li>Ensures that a fundamental understanding is established and can be applied throughout the GCSE</li> </ul>	
	<ul style="list-style-type: none"> <li>Nutritional needs and health</li> </ul>	<ul style="list-style-type: none"> <li>Pupils are able to use their knowledge of nutrition to make dishes that are suitable for a variety of groups, explaining their choices.</li> </ul>	
	<ul style="list-style-type: none"> <li>Food science</li> </ul>	<ul style="list-style-type: none"> <li>Pupils are aware of how to combine ingredients and the functional and chemical properties they have. Allows pupils to make higher quality dishes.</li> </ul>	
	<ul style="list-style-type: none"> <li>Food safety</li> </ul>	<ul style="list-style-type: none"> <li>Dishes are able to be prepared, cooked and stored safely both in school and at home</li> </ul>	
	<ul style="list-style-type: none"> <li>Food choice</li> </ul>	<ul style="list-style-type: none"> <li>Establish what influences food choice so that dishes are suitable for a variety of groups</li> </ul>	
	<ul style="list-style-type: none"> <li>Food provenance</li> </ul>	<ul style="list-style-type: none"> <li>Aware of the impact of the choices made and to be valuable members of society.</li> </ul>	
11	NEA 1 – Food Investigation Task	<ul style="list-style-type: none"> <li>Food Science Task issued annually by exam board - AQA on 1<sup>st</sup> September</li> <li>15% GCSE grade awarded</li> <li>10 hours</li> <li>1500 – 2000 word report</li> </ul>	<ul style="list-style-type: none"> <li>Investigate the functional and chemical properties of ingredients.</li> <li>Showcase a range of technical skills. Demonstrate reflective thinking, nutritional and costing analysis.</li> </ul>
	NEA 2 – Food Preparation Task	<ul style="list-style-type: none"> <li>Plan, prepare and cook task issued annually by exam board - AQA on 1<sup>st</sup> November</li> <li>35% GCSE grade awarded</li> <li>20 hours</li> <li>Includes 3 hour practical assessment.</li> </ul>	

	Revision Programme	<ul style="list-style-type: none"> <li>3 months intense consolidation of knowledge in preparation for 1 hour 45 minute written examination.</li> </ul>	<ul style="list-style-type: none"> <li>Pupils are able to demonstrate a secure understanding of all theory concepts from the course.</li> </ul>
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### Design and Technology (Graphics)

Year	What content (units)?	Why this content now? Why this order?	What are the key skills practised?
7	<ul style="list-style-type: none"> <li>Product Analysis: Introduction</li> </ul>	<ul style="list-style-type: none"> <li>ACCESSFM Criteria to identify and judge features of past pupil work.</li> </ul>	<ul style="list-style-type: none"> <li>Making and development of independence</li> <li>Evaluation/reflective thinking</li> <li>Design/ simple CAD Skills</li> </ul>
	<ul style="list-style-type: none"> <li>The Design Process 1: Research</li> </ul>	<ul style="list-style-type: none"> <li>Use analysis to inform and select appropriate theme</li> </ul>	
	<ul style="list-style-type: none"> <li>Design Skills</li> </ul>	<ul style="list-style-type: none"> <li>Use analysis/research to write a design specification (Literacy target 1: connectives) to design a suitable idea (annotate, evaluate)</li> </ul>	
	<ul style="list-style-type: none"> <li>Practical Skills: CAD</li> </ul>	<ul style="list-style-type: none"> <li>Use CAD to create simple shapes and surface decorate with imported images and text. Product made with hand tools (one-off production)</li> </ul>	
	<ul style="list-style-type: none"> <li>Sequence</li> </ul>	<ul style="list-style-type: none"> <li>Demonstration that pupils can recall processes and use terminology to describe (Literacy target 2: Key terms) in order.</li> </ul>	
8	<ul style="list-style-type: none"> <li>D&amp;T Theory: Core Principle (link to KS4 D&amp;T GCSE)</li> </ul>	<ul style="list-style-type: none"> <li>Identify different energy sources and understand advantages disadvantages of each.</li> </ul>	<ul style="list-style-type: none"> <li>Making and further development of independence and complexity.</li> </ul>
	<ul style="list-style-type: none"> <li>Product Analysis: Recall from Year 7</li> </ul>	<ul style="list-style-type: none"> <li>ACCESSFM Criteria to identify and judge features of past pupil work to research appropriate theme.</li> </ul>	
	<ul style="list-style-type: none"> <li>The Design Process 2: Planning and Prototyping</li> </ul>	<ul style="list-style-type: none"> <li>Analysis/research informs selection appropriate images to plan and test future products</li> </ul>	
	<ul style="list-style-type: none"> <li>Design Skills</li> </ul>	<ul style="list-style-type: none"> <li>Design specification used to inform range of ideas (annotate, evaluate and select using connectives- literacy target 1)</li> </ul>	
	<ul style="list-style-type: none"> <li>Practical Skills: CAD/CAM</li> </ul>	<ul style="list-style-type: none"> <li>Use CAD to create complex shapes to be made with CAM tools (batch/mass production)</li> </ul>	
	<ul style="list-style-type: none"> <li>Sequence</li> </ul>	<ul style="list-style-type: none"> <li>Demonstration that pupils can recall processes and use terminology to describe them (Literacy target 2: Key terms) in</li> </ul>	

		order, identifying areas of the design process.	
	<ul style="list-style-type: none"> <li>D&amp;T Theory: Core Principle (link to KS4 D&amp;T GCSE)</li> </ul>	<ul style="list-style-type: none"> <li>Identify technology used (automation and robotics) in large scale production and understand advantages disadvantages.</li> </ul>	
9	<ul style="list-style-type: none"> <li>Product Analysis: Recall from Year 7/8</li> </ul>	<ul style="list-style-type: none"> <li>Identify and judge features of real life work to research and select appropriate theme and user type.</li> </ul>	<ul style="list-style-type: none"> <li>Focus of work is to ensure that practical skills are well developed to take onto GCSE level and beyond.</li> </ul>
	<ul style="list-style-type: none"> <li>The Design Process 3: Planning for target user</li> </ul>	<ul style="list-style-type: none"> <li>Analysis/research informs selection appropriate images to plan product for user type.</li> </ul>	
	<ul style="list-style-type: none"> <li>Design Skills</li> </ul>	<ul style="list-style-type: none"> <li>Design specification used to inform range of ideas (annotate, evaluate and select (literacy target 1) with input from others'.</li> </ul>	
	<ul style="list-style-type: none"> <li>Practical Skills: Photo-Editing and CAD/CAM (unaided test)</li> </ul>	<ul style="list-style-type: none"> <li>Use Photo-Editing software to create complex original graphics. CAD/CAM skills gained in 7/8 tested without aid.</li> </ul>	
	<ul style="list-style-type: none"> <li>Sequence</li> </ul>	<ul style="list-style-type: none"> <li>Demonstration that pupils can plan complex processes and use terminology to describe them (Literacy target 2: Key terms) in order, identifying areas of Quality Control in the design process.</li> </ul>	
	<ul style="list-style-type: none"> <li>D&amp;T Theory: Core Principle (link to KS4 D&amp;T GCSE)</li> </ul>	<ul style="list-style-type: none"> <li>Identify and use Systems (input/process/output) in range of instruction/operation scenarios.</li> </ul>	
10	<ul style="list-style-type: none"> <li>Practice Project 1: Logo Design</li> </ul>	<ul style="list-style-type: none"> <li>Ensures that pupils are able to use colour/typography intelligently.</li> <li>Use design specification to select and justify techniques selected.</li> <li>Produce ideas to specified scales.</li> <li>Produce original graphics to context requirements.</li> </ul>	<ul style="list-style-type: none"> <li>Developing practical skills to the highest levels of creativity, complexity and challenge</li> <li>Ability to assimilate theory concepts and apply in practical work, reflective opportunities and examination scenarios.</li> <li>Specialist Design Principles tested in preparation for the GCSE NEA task/section B of the GCSE Exam</li> <li>Core Principles tested in</li> </ul>
	<ul style="list-style-type: none"> <li>Practice Project 2: CAD Design</li> </ul>	<ul style="list-style-type: none"> <li>Ensures that pupils are able to use analysis to inform primary and secondary research.</li> <li>Use design specification to select, justify and verify.</li> <li>Produce working drawings to inform making</li> <li>Produce CAD design to context requirements</li> </ul>	
	<ul style="list-style-type: none"> <li>Practice Project 3: CAD CAM Manufacture</li> </ul>	<ul style="list-style-type: none"> <li>Ensures that pupils are able to select materials from a variety of sources to better meet the needs of the brief/user.</li> </ul>	

		<ul style="list-style-type: none"> <li>Use design specification to select, justify, verify and plan forward.</li> <li>Produce isometric representations of products to show intentions.</li> <li>Produce CAD designs to context requirements and make products using different CAM tools.</li> </ul>	preparation for section A of the GCSE Exam in: -New Technology -Energy -New Materials -Systems -Mechanisms -Material Properties
	<ul style="list-style-type: none"> <li>Practice Project 3: Hand Tools</li> </ul>	<ul style="list-style-type: none"> <li>Pupils are aware of how to select/use different tools, equipment and adhesives to make products in different scales of production.</li> </ul>	
	<ul style="list-style-type: none"> <li>Core Principles</li> </ul>	<ul style="list-style-type: none"> <li>Stand Alone lessons incorporated into practice projects to re-affirm knowledge gained in KS3.</li> </ul>	
11	NEA Task	<ul style="list-style-type: none"> <li>A variety of different contexts issued annually by exam board - AQA on 1<sup>st</sup> June</li> <li>50% GCSE grade awarded</li> <li>35 teaching hours</li> <li>20 A3 Pages and a practical outcome</li> </ul>	<ul style="list-style-type: none"> <li>Investigate context requirements and show design skills to reflect.</li> <li>Develop, model and test to make a quality product prototype with complexity and innovation.</li> <li>Demonstrate understanding of theory concepts.</li> </ul>
	Revision Programme	<ul style="list-style-type: none"> <li>3 months intense consolidation of knowledge in preparation for 2 hour written examination.</li> </ul>	

### Design and Technology (Resistant Materials)

Year	What content (units)?	Why this content now? Why this order?	What are the key skills practised?
7	<ul style="list-style-type: none"> <li>Design 1: CAD (fridge magnet)</li> </ul>	<ul style="list-style-type: none"> <li>Understanding how CAD is used to work quickly and efficiently</li> </ul>	<ul style="list-style-type: none"> <li>Understanding how CAD/CAM is used in industry to design and evaluate through rapid prototyping.</li> <li>Practicing workshop and workplace safety.</li> <li>Learning how to handle tools and equipment safely.</li> </ul>
	<ul style="list-style-type: none"> <li>Manufacturing 1: CAM (fridge magnet)</li> </ul>	<ul style="list-style-type: none"> <li>Understanding how CAM is repeatable, precise and fast.</li> </ul>	
	<ul style="list-style-type: none"> <li>Design 2: Using abstract patterns (key fob)</li> </ul>	<ul style="list-style-type: none"> <li>In order to contrast against CAD traditional design techniques are used to inspire creativity and individuality.</li> </ul>	
	<ul style="list-style-type: none"> <li>Manufacturing 2: Workshop safety and hand tools (key fob)</li> </ul>	<ul style="list-style-type: none"> <li>In order to contrast against CAM traditional hand tools are used in the workshop to give pupils the opportunity to experience skills requiring dexterity.</li> </ul>	

	<ul style="list-style-type: none"> <li>Sequence: Sequence diagram</li> </ul>	<ul style="list-style-type: none"> <li>The diagram is used for reflection on all areas and to show understanding following the design and make project.</li> </ul>	<ul style="list-style-type: none"> <li>Sequence diagrams are created to promote key terms used with connective words in justified statements.</li> </ul>
	<ul style="list-style-type: none"> <li>D&amp;T Theory: Mechanisms Core Principle (link to KS4 D&amp;T GCSE)</li> </ul>	<ul style="list-style-type: none"> <li>An introduction to mechanisms as pupils are beginning to build on understanding of how simple mechanisms are used in tools and equipment.</li> </ul>	
8	<ul style="list-style-type: none"> <li>Design 3: Using imagery to create a recognisable form</li> </ul>	<ul style="list-style-type: none"> <li>Using CAD to inspire a design that is well proportioned and iconic.</li> </ul>	<ul style="list-style-type: none"> <li>Quality control, minimising waste and working with precision.</li> <li>Putting maths skills into practice.</li> <li>Persevering with difficult tasks in order to achieve a rewarding outcome.</li> <li>Joining, shaping and finishing wood.</li> <li>Understanding the meaning of finite and renewable materials.</li> </ul>
	<ul style="list-style-type: none"> <li>Development 1: Creating a 2:1 scale drawing and cutting list</li> </ul>	<ul style="list-style-type: none"> <li>Using maths skills to create a workshop drawing/plan before starting manufacture.</li> </ul>	
	<ul style="list-style-type: none"> <li>Manufacturing 3: Cutting metal safely and accurately</li> </ul>	<ul style="list-style-type: none"> <li>Furthering skills with hand tools in the workshops with an emphasis on safety.</li> </ul>	
	<ul style="list-style-type: none"> <li>Manufacturing 4: Cold forming and brazing</li> </ul>	<ul style="list-style-type: none"> <li>Understanding the limits and properties of steel. Experiencing the complexity of creating a brazed joint.</li> </ul>	
	<ul style="list-style-type: none"> <li>Manufacturing 5: Making a wooden base</li> </ul>	<ul style="list-style-type: none"> <li>Understanding the properties of wood as a contrasting material.</li> </ul>	
	<ul style="list-style-type: none"> <li>D&amp;T Theory: The Environment Core Principle (link to KS4 D&amp;T GCSE)</li> </ul>	<ul style="list-style-type: none"> <li>Ensuring an awareness of the responsibilities that designers/consumers must consider.</li> </ul>	
9	<ul style="list-style-type: none"> <li>Developing a design for a particular customer/user</li> </ul>	<ul style="list-style-type: none"> <li>Understanding the importance of designing a product for a real world client.</li> </ul>	<ul style="list-style-type: none"> <li>Using CAD with precision and skill to create a complicated outcome.</li> <li>Problem solving skills to test and promote pupils' ability to innovate.</li> </ul>
	<ul style="list-style-type: none"> <li>Evaluating the design against the specification</li> </ul>	<ul style="list-style-type: none"> <li>Checking the design will be suitable for manufacture.</li> </ul>	
	<ul style="list-style-type: none"> <li>Design 4: Advanced use of CAD</li> </ul>	<ul style="list-style-type: none"> <li>Working to high standards of tolerance and accuracy.</li> </ul>	
	<ul style="list-style-type: none"> <li>Manufacturing 6: Assembly of CAM parts</li> </ul>	<ul style="list-style-type: none"> <li>Creating templates to ensure accurate placement of parts in assembly.</li> </ul>	
	<ul style="list-style-type: none"> <li>Problem solving</li> </ul>	<ul style="list-style-type: none"> <li>Designing and making a stand to support the pupils individually shaped clock using limited tools equipment and time constraints.</li> </ul>	
	<ul style="list-style-type: none"> <li>D&amp;T Theory: Modern Materials Core Principle (link to KS4 D&amp;T GCSE)</li> </ul>	<ul style="list-style-type: none"> <li>Promoting an awareness of new and emerging materials.</li> </ul>	
	<ul style="list-style-type: none"> <li>Practice Project 1- CAD/CAM and Specialist Technical Principles (Laminated Lamp)</li> </ul>	<ul style="list-style-type: none"> <li>To understand how various materials can be laminated to improve their properties.</li> </ul>	<ul style="list-style-type: none"> <li>Developing practical skills to the highest levels of creativity,</li> </ul>

10		<ul style="list-style-type: none"> <li>Marking out and simple temporary joints in wood to further their skill sets.</li> <li>Considering customer focussed design.</li> <li>Core Principles 1 and 2</li> </ul>	<p>complexity and challenge</p> <ul style="list-style-type: none"> <li>Ability to assimilate theory concepts and apply in practical work, reflective opportunities and examination scenarios.</li> <li>Specialist Design Principles tested in preparation for the GCSE NEA task/section B of the GCSE Exam</li> <li>Core Principles tested in preparation for section A of the GCSE Exam in: <ul style="list-style-type: none"> <li>-New Technology</li> <li>-Energy</li> <li>-New Materials</li> <li>-Systems</li> <li>-Mechanisms</li> <li>-Material Properties</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>Practice Project 2- CAD/CAM and Specialist Technical Principles (Bookends)</li> </ul>	<ul style="list-style-type: none"> <li>Working out their own skill level to attempt varying degrees of difficult joints.</li> <li>Complicated joints in wood to further their skill sets.</li> <li>Orthographic drawing and manufacturing specification.</li> <li>Designing a product for a specific customer.</li> <li>Core principles 3 and 4</li> </ul>	
	<ul style="list-style-type: none"> <li>Practice Project 3- CAD/CAM and Specialist Technical Principles (Coat hook with casting)</li> </ul>	<ul style="list-style-type: none"> <li>Designing a logo to represent themselves during the NEA.</li> <li>Using CAD to create complicated 2 or 3 part moulds for pewter casting of their personalised logo.</li> <li>Marking out on metal, cutting and cold forming metal.</li> <li>Applying finishes to wood.</li> <li>Core principles 5 and 6</li> </ul>	
	<ul style="list-style-type: none"> <li>Begin NEA Task (1<sup>st</sup> June)</li> </ul>		
11	NEA Task	<ul style="list-style-type: none"> <li>A variety of different contexts issued annually by exam board - AQA on 1<sup>st</sup> June</li> <li>50% GCSE grade awarded</li> <li>35 teaching hours</li> <li>20 A3 Pages and a practical outcome</li> </ul>	<ul style="list-style-type: none"> <li>Investigate context requirements and show design skills to reflect.</li> <li>Develop, model and test to make a quality product prototype with complexity and innovation.</li> <li>Demonstrate understanding of theory concepts.</li> </ul>
	Revision Programme	<ul style="list-style-type: none"> <li>3 months intense consolidation of knowledge in preparation for 2 hour written examination.</li> </ul>	

### Design and Technology (Textiles)

Year	What content (units)?	Why this content now? Why this order?	What are the key skills practised?
	<ul style="list-style-type: none"> <li>Design Specification: Introduction</li> </ul>	<ul style="list-style-type: none"> <li>Pupils can create a list of criteria the product must meet to help</li> </ul>	

7		understand what the brief requires.	<ul style="list-style-type: none"> <li>• Develop practical skills.</li> <li>• Development of independence</li> <li>• Show consideration of guidelines used in the industry when designing.</li> <li>• Evaluation/reflective thinking</li> </ul>
	<ul style="list-style-type: none"> <li>• Practical Skills: Exploration of decorative techniques</li> </ul>	<ul style="list-style-type: none"> <li>• Pupils are able to develop and perfect practical skills before making begins fully.</li> </ul>	
	<ul style="list-style-type: none"> <li>• Design Skills</li> </ul>	<ul style="list-style-type: none"> <li>• Pupils are able to show how they utilise research to create a range of design ideas. Pupils can then develop the designs into a final design that will be produced.</li> </ul>	
	<ul style="list-style-type: none"> <li>• Practical Skills: Completing the product</li> </ul>	<ul style="list-style-type: none"> <li>• Pupils can develop and perfect their skills whilst making a high quality product.</li> </ul>	
	<ul style="list-style-type: none"> <li>• Evaluation</li> </ul>	<ul style="list-style-type: none"> <li>• This enables pupils to fully reflect on their work and give them an advantage when working in this area again.</li> </ul>	
	<ul style="list-style-type: none"> <li>• D&amp;T Theory: Core Principle (link to KS4 D&amp;T GCSE)</li> </ul>	<ul style="list-style-type: none"> <li>• Pupils gain an understanding of how and why products are developed for people and society.</li> </ul>	
8	<ul style="list-style-type: none"> <li>• Design Specification: Introduction</li> </ul>	<ul style="list-style-type: none"> <li>• Pupils can create a list of criteria the product must meet to help understand what the brief requires.</li> </ul>	<ul style="list-style-type: none"> <li>• Being able to meet strict constraints when designing.</li> <li>• Continue to develop independence.</li> <li>• Show consideration of guidelines used in the industry when designing.</li> <li>• Evaluation/reflective thinking</li> <li>• Increased complexity in skills developed.</li> </ul>
	<ul style="list-style-type: none"> <li>• Product Analysis:</li> </ul>	<ul style="list-style-type: none"> <li>• Pupils are able to consider other products before designing to help create high quality products.</li> </ul>	
	<ul style="list-style-type: none"> <li>• Design Skills: CAD/CAM</li> </ul>	<ul style="list-style-type: none"> <li>• Pupils develop CAD skills to produce a design which can be made using CAM.</li> </ul>	
	<ul style="list-style-type: none"> <li>• Practical Skills: Completing the product</li> </ul>	<ul style="list-style-type: none"> <li>• Pupils are able to develop and perfect new skills whilst making a high quality product.</li> </ul>	
	<ul style="list-style-type: none"> <li>• Evaluation</li> </ul>	<ul style="list-style-type: none"> <li>• This enables pupils to fully reflect on their work and give them an advantage when working in this area again.</li> </ul>	
	<ul style="list-style-type: none"> <li>• D&amp;T Theory: Core Principle (link to KS4 D&amp;T GCSE)</li> </ul>	<ul style="list-style-type: none"> <li>• Pupils expand knowledge of technical developments within the Textile industry.</li> </ul>	
9	<ul style="list-style-type: none"> <li>• Design Specification: Introduction</li> </ul>	<ul style="list-style-type: none"> <li>• Pupils are able to create a list of criteria the product must meet using the design brief given.</li> </ul>	<ul style="list-style-type: none"> <li>• Creating a 3D object from a 2D drawing, using paper to model it.</li> <li>• Independence is encouraged at every stage.</li> </ul>
	<ul style="list-style-type: none"> <li>• Product Analysis:</li> </ul>	<ul style="list-style-type: none"> <li>• Pupils are able to collate and analyse existing products to help with inspiration when designing high quality products.</li> </ul>	
	<ul style="list-style-type: none"> <li>• Design Skills:</li> </ul>	<ul style="list-style-type: none"> <li>• Pupils collaborate to produce a range of designs. Pupils then go on to produce a template which</li> </ul>	

		will enable them to create a 3D product.	<ul style="list-style-type: none"> <li>• Being able to work well with others and see this as a benefit.</li> <li>• Evaluation/reflective thinking</li> <li>• Increased complexity in skills developed.</li> <li>•</li> </ul>
	<ul style="list-style-type: none"> <li>• Practical Skills: Templates</li> </ul>	<ul style="list-style-type: none"> <li>• Pupils are able to develop skills further to make a more complex product.</li> </ul>	
	<ul style="list-style-type: none"> <li>• Evaluation</li> </ul>	<ul style="list-style-type: none"> <li>• This enables pupils to fully reflect on their work and give them an advantage when working in this area again.</li> </ul>	
	<ul style="list-style-type: none"> <li>• D&amp;T Theory: Core Principle (link to KS4 D&amp;T GCSE)</li> </ul>	<ul style="list-style-type: none"> <li>• Pupils expand knowledge of renewable energy and how it is used by companies to become more sustainable.</li> </ul>	
10	<ul style="list-style-type: none"> <li>• Project 1: Decorative Techniques</li> </ul>	<ul style="list-style-type: none"> <li>• Develop pupil's skills in decorative techniques.</li> <li>• Using an existing designer as inspiration to design and make a 3D product.</li> <li>• Begin to understand a variety of methods to add shape to garments.</li> <li>• Gain knowledge on fibres and fabrics, their origin, characteristics and the construction.</li> <li>• Pupils are able to show understanding and use quality control effectively.</li> </ul>	<ul style="list-style-type: none"> <li>• Developing practical skills to the highest levels of creativity, complexity and challenge</li> <li>• Ability to assimilate theory concepts and apply in practical work, reflective opportunities and examination scenarios.</li> <li>• Specialist Design Principles tested in preparation for the GCSE NEA task/section B of the GCSE Exam</li> <li>• Core Principles tested in preparation for section A of the GCSE Exam in: <ul style="list-style-type: none"> <li>-New Technology</li> <li>-Energy</li> <li>-New Materials</li> <li>-Systems</li> <li>-Mechanisms</li> <li>-Material Properties</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>• Project 2: Lunchbag</li> </ul>	<ul style="list-style-type: none"> <li>• Pupils are able to fully analyse products to help them realise a need for its development.</li> <li>• Gain an understanding on the effects of forces and stresses on products and why this an important consideration.</li> <li>• Be able to research and use it effectively when designing.</li> <li>• Demonstrate modelling skills in paper to create a 3D prototype of products to allow refinement of skills.</li> <li>• Show consideration of the properties and materials and components when selecting. Demonstrates knowledge.</li> </ul>	
	<ul style="list-style-type: none"> <li>• Project 3: Upcycled shirt</li> </ul>	<ul style="list-style-type: none"> <li>• Show a good understanding of the 6 R's, build this into the research and development of an upcycled product.</li> <li>• Consider sustainability and develop knowledge of the impact</li> </ul>	

		<p>industries have on the environment.</p> <ul style="list-style-type: none"> <li>• Consider a customer's needs when deciding on design ideas to help create a suitable and effective product.</li> <li>• Learn how to disassemble products and why this is an important part in the process.</li> <li>• Be able to consider marketability of a product and what makes a retailer interested in a product.</li> </ul>	
	<ul style="list-style-type: none"> <li>• Core Principles</li> </ul>	<ul style="list-style-type: none"> <li>• Stand Alone lessons incorporated into practice projects to re-affirm knowledge gained in KS3.</li> </ul>	
11	NEA Task	<ul style="list-style-type: none"> <li>• A variety of different contexts issued annually by exam board - AQA on 1<sup>st</sup> June</li> <li>• 50% GCSE grade awarded</li> <li>• 35 teaching hours</li> <li>• 20 A3 Pages and a practical outcome</li> </ul>	<ul style="list-style-type: none"> <li>• Investigate context requirements and show design skills to reflect.</li> <li>• Develop, model and test to make a quality product prototype with complexity and innovation.</li> <li>• Demonstrate understanding of theory concepts.</li> </ul>
	Revision Programme	<ul style="list-style-type: none"> <li>• 3 months intense consolidation of knowledge in preparation for 2 hour written examination.</li> </ul>	