



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
7	<p align="center"><b>Curriculum topics delivered on a rotation:</b></p> <p><b>Design 1:</b> Traditional ways to create design ideas including sketching in 2D and 3D, and 3D model making in card.</p> <p><b>Fashion and Textiles 1:</b> ACCESSFM is used to annotate designs, introduction to making in Textiles, running stitch, cross stitch, tie dye and basic Computer Aided Manufacturing, designing and making a pencil case including Applique, Hand embroidery and laser engraving.</p> <p><b>Food and Nutrition 1:</b> Principles of Healthy eating through understanding the Eatwell plate. The 4 C's Macronutrients and commodities as well as sourcing and animal welfare will all be covered during this unit and linked through the Attwell Farm trip. The use of equipment to prepare a range of dishes including Flapjack, chocolate concrete, chocolate chip cookies and flat bread pizza.</p> <p><b>Making 1:</b> Illuminated display including Electronic systems theory and basic programming. Pupils will learn about resistors, LED's and switches and use these to assemble a circuit to fit into a display of their own design.</p> <p align="center">Health and Safety and safe working practices is covered across all areas.</p>					
8	<p align="center"><b>Curriculum topics delivered on a rotation:</b></p> <p><b>Design 2:</b> Modern designing methods focussing on the use of Computer Aided Design and Manufacturing.</p> <p><b>Fashion and Textiles 2:</b> Fashion design through the use of different techniques and mediums such as collage, the use of Harumika dolls for 3D designing and how to use templates to support sketches. 3D designing will also be further developed through a collaborative design task where small groups will produce a newspaper garment design on a full-scale mannequin.</p> <p><b>Food and Nutrition 2:</b> Social, Moral, Ethical and Environmental issues around food including the origins of some dishes is to be covered as is the importance of micronutrients, vitamins and minerals. Pupils will also develop their understanding of the dangers of bacteria and high-risk foods. Further development of cookery skills including safe working practices with meat will be covered in the production of Chicken stir fry and hunters chicken dish. Pupils will also make Scones and Mac and Cheese.</p> <p><b>Making 2:</b> Traditional woodworking skills including measuring, marking, cutting and finishing</p> <p align="center">Health and Safety and safe working practices is covered across all areas.</p>					
9	<p align="center"><b>Curriculum topics delivered on a rotation:</b></p> <p><b>Design 3:</b> Secondary research based on the theme of 'Biomimicry' which will then lead to a product analysis with full use of ACCESSFM. Pupils will then write their own design brief and specification using ACCESSFM in a different manor. Designing skills will then be developed through pupil's individual selection of design methods.</p> <p><b>Fashion and Textiles 3:</b> Production of a cushion inspired by the theme of 'Day of the Dead' with cross curricular links with Art and Design. Skills such as tie dye, pattern cutting, CAD/CAM applique, CNC embroidery and use of the sewing machines will be further developed in this project.</p> <p><b>Food and Nutrition 3:</b> Food allergies and intolerances, Malnutrition and DRI's and food certification used by the industry all to be covered. Practical skills will continue to be developed through production of sausage rolls, bread rolls with home-made butter, chocolate croissants and jam tarts.</p> <p><b>Making 3:</b> Plastics manufacturing processes including sublimation printing, 3D printing, strip heating and vacuum forming. Mechanical Systems is covered as an extended homework task.</p> <p align="center">Health and Safety and safe working practices is covered across all areas.</p>					
	Product Design - Skill builder 1: Wooden man <ul style="list-style-type: none"> <li>Machine and power tools</li> <li>Surface finishes</li> </ul> Including theoretical Knowledge: Natural and Manufactured Timbers	Theoretical Knowledge: Fibres and Fabrics	Skill builder 2: Designing skills <ul style="list-style-type: none"> <li>2D design recap</li> <li>advanced 3D CAD modelling</li> <li>Model making</li> </ul>	Product Design - Skill builder 3: Mock NEA - Trains or Box of Joints <ul style="list-style-type: none"> <li>Analysing a context</li> <li>Writing a brief</li> <li>Writing a specification</li> <li>Independent making skills development</li> </ul>		
10	Fashion and Textiles – Skill builder 1: Samples booklet <ul style="list-style-type: none"> <li>Seams and Hems</li> <li>Decorative techniques and embellishments</li> </ul> Including theoretical Knowledge: Fibres and Fabrics	Theoretical Knowledge: Natural and Manufactured Timbers		Fashion and Textiles – Skill builder 3: Mock NEA - Garments <ul style="list-style-type: none"> <li>Pattern cutting</li> <li>Toiles</li> <li>Analysing a context</li> <li>Writing a brief</li> <li>Writing a specification</li> <li>Independent making skills development</li> </ul>		GCSE 4: Non Examined Assessment 1: initial research and analysis leading to a design brief for an independent design and make project.
				Theoretical Knowledge: <ul style="list-style-type: none"> <li>Thermoforming and Thermosetting Polymers</li> <li>Ferrous and Non-Ferrous Metals</li> <li>Smart and Modern materials</li> <li>DT and our world</li> <li>Paper and Board</li> <li>Electronic systems revision</li> <li>Mechanical systems revision</li> <li>Programmable components revision</li> </ul>		
11	GCSE 5: Non examined Assessment 2: Independent design and make project Including year 11 Baseline, November and February internal mock examinations.				GCSE 6: Final revision of all topics including: <ul style="list-style-type: none"> <li>Thermoforming and Thermosetting Polymers:</li> <li>Natural and Manufactured Timbers</li> <li>Ferrous and Non-Ferrous Metals</li> <li>Smart and Modern materials</li> <li>DT and our world</li> <li>Fibres and Fabrics</li> <li>Paper and Board</li> <li>Electronic systems</li> <li>Mechanical systems</li> <li>Programmable components</li> </ul>	
12	A level Design and Technology 1: including <ul style="list-style-type: none"> <li>Baseline Examination</li> <li>Fashion and Textiles Advanced Hand Processes</li> <li>Principles of Computer Aided Design and Manufacturing Industrial practices</li> <li>Industrial Manufacturing Practices</li> <li>Materials</li> <li>Fashion and Textiles only: Pattern Language and Manipulation</li> <li>Product Design only: Joints and joining methods</li> <li>Research project</li> </ul>		A level Design and technology 2: Designing and Making practice: Design and Make mini project to develop each students personal style and design strategy preferences and to develop planning and making skills.	A level Design and Technology 3: End of year examination. Focus on examination technique, question styles, command words, strategy, stamina and timings.	A level Design and Technology 4 – Non-Examined Assessment: initial research and analysis leading to a design brief for an independent design and make project.	



<b>13</b>	A level Design and Technology 5: Non examined Assessment 2: Independent design and make project Including year 13 Baseline, November and February internal mock examinations.	A level Design and Technology 6: Final examination revision and preparation
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