



	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 7	<u><b>Computing Rotation (9 weeks)</b></u> <ul style="list-style-type: none"> <li>○ <b>Computer System:</b> E-safety, Passwords, File Management, Cloud Computing</li> <li>○ <b>Hardware:</b> Input/Output, Secondary Systems</li> <li>○ <b>Computational Thinking:</b> Abstraction, Decomposition, Pattern Recognition, Algorithms</li> <li>○ <b>Data Representation:</b> Binary, Image Representation, File types, Quality</li> </ul>	<u><b>Food Rotation (9 weeks)</b></u> <ul style="list-style-type: none"> <li>○ Introduction to health safety and hygiene in food.</li> <li>○ Eatwell plate can be used to make healthy choices and an introduction to nutrients.</li> <li>○ Identification and safe use of a range of equipment.</li> <li>○ Introduction to basic skills in food preparation (cutting, peeling, frying, boiling, baking, using a food processor to grate).</li> <li>○ Introduction to product analysis and sensory analysis, Reading label</li> <li>○ Introduction to festivals and their foods</li> <li>○ Introduction to food science.</li> </ul>	<u><b>Textiles Rotation (9 Weeks)</b></u> <ul style="list-style-type: none"> <li>○ Introduction to health and safety in Textiles.</li> <li>○ What are textiles and where are they used.</li> <li>○ Introduction to using a client brief to create a specification and inform design choices.</li> <li>○ Creating, annotating design ideas.</li> <li>○ Introduction to product analysis.</li> <li>○ Introduction to sewing machine safety and sewing of straight lines.</li> <li>○ Construction of a tote bag with a biomimicry themed pocket decorated with fabric crayons.</li> </ul>		<u><b>Product Design Rotation (9 Weeks)</b></u> <ul style="list-style-type: none"> <li>○ Health and safety in and around the workshop, how to use each tool/machine safely.</li> <li>○ Analysis of products using ACCESS FM</li> <li>○ Understanding why we design for a client.</li> <li>○ Using sketching to produce a design idea that follows a given theme</li> <li>○ Understanding about the different types of wood (hard/soft woods)</li> <li>○ Evaluating design decisions throughout the design process</li> </ul>	
Year 8	<u><b>Computing (9 weeks)</b></u> <ul style="list-style-type: none"> <li>○ <b>Hardware:</b> CPU, Performance, Memory, Secondary Storage</li> <li>○ <b>Networking:</b> LAN/WAN/PAN, Hardware, Connection and Network security.</li> <li>○ <b>Computational Thinking:</b> Developing Algorithms, Sequence, selections, Iterations, Testing, Debugging</li> <li>○ <b>Data Representation:</b> Binary conversions, Additions, Scripting, Character Sets, Units of data</li> </ul>	<u><b>Food (9 weeks)</b></u> <ul style="list-style-type: none"> <li>○ Health, safety and hygiene in depth with food poisoning</li> <li>○ Ingredient experimentation and product analysis.</li> <li>○ Combination of dishes with more components including meat.</li> <li>○ Introduction to countries and their traditional foods.</li> <li>○ Introduction to secondary processing, cuts of meat and how this can affect price.</li> <li>○ Choosing and adapting recipes based on nutritional need and age.</li> <li>○ Adapting recipes to make them healthier.</li> <li>○ Introduction to creaming as a method of cake making.</li> </ul>	<u><b>Textiles Rotation (9 Weeks)</b></u> <ul style="list-style-type: none"> <li>○ Introduction to health and safety in Textiles.</li> <li>○ What are textiles and where are they used.</li> <li>○ Introduction to using a client brief to create a specification and inform design choices.</li> <li>○ Analysis of products using ACCESSFM.</li> <li>○ Creating and annotating design ideas.</li> <li>○ Introduction to sewing machine safety, terminology and sewing of straight lines.</li> <li>○ Construction of a cushion using food packaging as a theme.</li> <li>○ Using the practical skills of fabric pens, applique, ironing, machine sewing, hand sewing.</li> </ul>	<u><b>Product Design and Textiles (9 Weeks)</b></u> <ul style="list-style-type: none"> <li>○ Health and safety.</li> <li>○ Analysis of products using ACCESS FM</li> <li>○ Completing a client profile that links to the brief</li> <li>○ Using different sketching techniques to come up with design ideas</li> <li>○ CAD/CAM</li> <li>○ Soldering/electronics knowledge</li> <li>○ Environmental issues of plastic and where plastic comes from.</li> <li>○ Theory on manufactured woods (properties/types etc)</li> <li>○ Prototype of a design idea that solves an original problem</li> <li>○ Evaluating design decisions throughout the design process</li> </ul>		



	Term 1		Term 2		Term 3	Term 4	Term 5	Term 6
Year 9	<u>Computing (9 weeks)</u> <ul style="list-style-type: none"><li>○ <b>System Security:</b> Malware, Protection methods, encryption</li><li>○ <b>Networking:</b> Sequencing and Variables,</li><li>○ <b>Algorithms and Programming</b></li><li>○ <b>Practical Application of Programming</b></li></ul>				<u>Food (9 weeks)</u>		<u>Product Design and Textiles (9 Weeks)</u>	
OCR GCSE (9-1) Computer Science: <a href="#">Please click here for the Specification</a>								
Year 10	<ul style="list-style-type: none"><li>○ Boolean Logic</li><li>○ Units</li><li>○ Data Storage</li><li>○ Designing, creating, refining algorithms.</li></ul>	<ul style="list-style-type: none"><li>○ Designing, Creating and refining</li><li>○ Algorithms</li><li>○ Programming Fundamentals</li><li>○ Data Types</li></ul>	<ul style="list-style-type: none"><li>○ Programming Techniques</li><li>○ Practical Programming skills</li></ul>	<ul style="list-style-type: none"><li>○ Binary – Characters – Images – Sounds – Compressions</li><li>○ Architecture of CPU</li><li>○ CPU Performance</li></ul>	<ul style="list-style-type: none"><li>○ Embedded systems</li><li>○ RAM/ROM/Cache</li><li>○ Secondary Storages</li><li>○ Network Topologies</li></ul>	<ul style="list-style-type: none"><li>○ Wired and Wireless networks</li><li>○ Protocols and layers</li><li>○ Practical programming revision.</li></ul>		
Year 11	<ul style="list-style-type: none"><li>○ Threats to systems and Networks</li><li>○ Operating Systems</li><li>○ Utility software</li><li>○ Ethical, Legal, Cultural and environmental impacts</li></ul>	<ul style="list-style-type: none"><li>○ Defensive Designs</li><li>○ Testing</li><li>○ Language</li><li>○ IDE – Integrated Development Environment</li></ul>	<ul style="list-style-type: none"><li>○ Practical Programming revision</li><li>○ Searching and Sorting Algorithms and Programming</li></ul>	<ul style="list-style-type: none"><li>○ Theory Revision</li><li>○ Practical Programming Revision</li></ul>	<ul style="list-style-type: none"><li>○ Theory Revision</li><li>○ Practical Programming Revision</li></ul>	Final Exams		