

Year 9 Curriculum Overview Plan: Design & Technology

N.B – These subjects are taught in on a half-termly rotation that can occur in any order.

| Workshop | Studio | Kitchen |
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| <p>Key Theme: Polymers(Project 1) Electronics (Project 2)</p> <p>Substantive knowledge to be embedded: Project 1 The process of using a polymer material (acrylic) to make a simple product using thermoforming techniques. (press, mold and line bending techniques.) Introduction to basic human factors in product design.</p> <p>Substantive knowledge to be embedded: Project 2 The use of a simple LED USB circuit to create a ‘mood light’. Using a kit of parts to create following simple instructions. Using simple soldering techniques. Testing and fault finding.</p> <p>Links to Prior Learning: KS3 Design and Technology</p> | <p>Key Theme: Design Branding</p> <p>Substantive knowledge to be embedded: The process of design, colour theory and exploring how to be creative but using a brief and specification</p> <p>Links to Prior Learning: KS3 Design & Technology</p> <p>Key Assessment Pieces: Design Idea – Food Van – Model, designs and concepts</p> <p>Tier 3 Vocabulary Vault: Market Pull Function Packaging Illustration Net Influencer Functionality Client Isometric drawing</p> | <p>Key Theme: Meal Planning</p> <p>Substantive knowledge to be embedded: Nutritional needs of different groups of people, starters, mains and desserts and considering food waste. A wide range of techniques such as weighing, kneading, decoration</p> <p>Links to Prior Learning: Year 7 and 8 Food lessons.</p> <p>Key Assessment Pieces: A starter, main and dessert product made.</p> <p>Tier 3 Vocabulary Vault: Nutrients Accuracy Weighing Appropriate Applying Technique Side Dish</p> |

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| <p>Key Assessment Pieces:</p> <ol style="list-style-type: none"> 1. Create and test a 'spork' 2. Create and test Mood Light <p>Evaluate performance and record the manufacturing record.</p> <p>Tier 3 Vocabulary Vault:</p> <p>Thermoforming Thermoplastics Thermosetting Human Factors Soldering Light Emitting Diode(s) Evaluation</p> <p>Reading Exposure Task instructions Evaluation examples Health and Safety</p> | <p>Logo Specification Customer Profile</p> <p>Reading Exposure Brief, specification examples Task instructions.</p> | <p>Creaming Decoration Evaluate</p> <p>Reading Exposure Recipes, health and safety routines</p> |
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