

**Year 9 DT**

**Year 9 DT Curriculum Information**

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|  | **Key Question:** | **Specification:** | **Skill Focus:** |
| **Food** | Can you identify and explain the effects of a poor diet? | * Macronutrients * Micronutrients * The importance of a nutritionally balanced diet * Health implications of a poor diet * Adapting recipes | A01: Adapt and develop a recipe to produce a healthier alternative to a traditional sponge cake.  A02: Complete a complex practical task in one hour.  A03: Health and nutrition knowledge, macro and micro nutrients. The effect of diet on our health |
| **Product Design** | How do designers and engineers use computer aided design and computer aided manufacturing in the design and manufacturing of a product? | * Health and Safety in the workshop * Product/Market Research * Product Design * Computer Aided Design * Computer Aided Manufacturing * Soldering and circuit board population. * Product assembly * Product evaluation | A01: Identify tools and machines in the workshop and the relevant health and safety regulations for their correct use.  A02: CAD used in 2D and 3D design applications.  A03: CAM used in commercial manufacturing and laser cutting/engraving school project. |
| **Textiles** | What is dye sublimation?  How can it be used in the fashion and textiles industry?  What is cad/cam?  How is it used? | * Product research * Product analysis * Product Design * Manufacturing * Production of manufacture * Product evaluation | A01: Product analysis  A02: Designing to a brief  A03: Construction of bag using CAD/CAM |

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| **Assessment** | **Time/Venue** | **What will be assessed?** |
| **Food**  **Term 1:** Practical  **Term 2:** Practical  **Term 3:** Exam | **Term 1:** 1hr classroom.  **Term 2:** 1hr classroom.  **Term 3:** 1hr written paper. | AO1: Complete an adapted recipe in one hour. Pupils will be assessed on practical and presentation skills.  A02: Complete a practical task in one hour. Pupils will be assessed on their ability to work independently and adapt a recipe.  A03: Exam paper on nutritional requirements and function of ingredients. |
| **Product Design**  **Term 1:** Research  **Term 2:** Design  **Term 3:** Summer exam | **Term 1:** 1hr classroom.  **Term 2:** 1hr classroom.  **Term 3:** 1hr written paper. | **A01:** Research task using ACCESS FM as a product research tool.  **A02**: Design task using technical drawing processes to design a product.  **A03**: Exam paper on CAD/CAM manufacturing questions. |
| **Textiles**  **Term 1:** Research  **Term 2:** Design  **Term 3:** Exam | **Term 1:** 1hr Classroom  **Term 2:** 1hr Classroom  **Term 3:** 1hr Written paper | **01:** Research task using ACCESS FM as a product research tool.  **A02**: Design task  **A03**: Exam paper on Manufacturing techniques |

**Year 9 DT Assessment Information**