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| **Year 7** | **Autumn 1**  (3 Lessons and Study) | **Autumn 2**  (3 Lessons and Study) | **Spring 1**  (3 Lessons and Study) | **Spring 2**  (2 Lessons and Study) | **Summer 1**  (2 or 3 Lessons and Study) | **Summer 2**  (3 Lessons and Study) |
| **Trinket box** | **Design Skills**   * Oblique * Isometric * Rendering   **Knowledge**  Materials and their properties   * Natural timbers * Manufactured boards * Thermo-plastics   Constructions and joining methods   * Wood joints * Adhesives   Hand tools – use and safety   * Design movements (Memphis / Kandinsky / Mondrian) | **Design Skills**   * Pencil sketching and rendering of design ideas * CAD development of design ideas (advertising)   [3D Design Software | 3D Modelling on the Web | SketchUp](https://www.sketchup.com/)  **Product Specification**   * Using ACCESS FM   **Manufacture**  Developing skills and understanding of manufacture processes with woods.   * Marking out * Sawing | **Manufacture**  Developing skills and understanding of manufacture processes with woods.   * Marking out * Sawing * Sanding * Construction (PVA) * QC/QA   **Health and Safety** Assessments and Sign Off  **Ongoing Evaluation**  Manufacture records and reflections | **Manufacture**  Developing skills and understanding of manufacture processes with woods.   * Marking out * Sawing * Sanding * Construction * QC/QA   **Health and Safety**  Assessments and Sign Off  **Ongoing Evaluation**  Manufacture records and reflections | **Manufacturing**  Developing skills and understanding of manufacture processes with woods.   * Timber Finishes * Decorative fixtures/fittings   **Health and Safety**  Assessments and Sign Off  **Ongoing Evaluation**  Manufacture records and reflections | **Advertising and marketing**   * CAD advertising * One off/Batch production – reflection on this product and impact of different scales of production   **Testing and Evaluation**   * Testing against Specification (all ACCESS FM areas) * Evaluation of knowledge * Evaluation of skills * Evaluation of final product |
| **Year 8** | **Autumn 1**  (3 Lessons and Study) | **Autumn 2**  (3 Lessons and Study) | **Spring 1**  (3 Lessons and Study) | **Spring 2**  (2 Lessons and Study) | **Summer 1**  (2 or 3 Lessons and Study) | **Summer 2**  (3 Lessons and Study) |
| **Decorative Item**  **Design and Manufacture** | **Knowledge**  Design movements:   * Art Deco * Art Nouveau   Materials investigations:   * Thermoplastics * Thermosetting Plastics * Manufactured boards * Hardwoods * Softwoods * Ferrous metals * Non-Ferrous metals * Alloys | Existing Products Analysis:   * Keyrings * Jewellery   **Design Development**  Drawing skills   * Pencil sketching * Pencil rendering   CAD Modelling   * Sketchup [3D Design Software | 3D Modelling on the Web | SketchUp](https://www.sketchup.com/)   3D Modelling   * Card * Clay   Design specifications and testing for user/client | **Manufacturing**  Developing skills and understanding of manufacture processes with woods, metals and plastics.   * Casting * Shaping * Forming   Tools & Equipment  **Health and Safety**  Assessments and Sign Off  **Ongoing Evaluation**  Manufacture records and reflections | **Manufacturing**  Developing skills and understanding of manufacture processes with woods, metals and plastics.   * Casting * Shaping * Forming   Tools & Equipment  **Health and Safety**  Assessments and Sign Off  **Ongoing Evaluation**  Manufacture records and reflections | **Manufacturing**  Developing skills and understanding of manufacture processes with woods, metals and plastics.   * Polishes * Finishes * Fixtures/fittings   Tools & Equipment  **Health and Safety**  Assessments and Sign Off  **Ongoing Evaluation**  Manufacture records and reflections | **Finishing Display**   * Point of sale display/Packaging * CAD advertising   **Testing and Evaluation**   * Testing against Specification (all ACCESS FM areas) * Evaluation of knowledge * Evaluation of skills * Evaluation of final product |

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|  | **Autumn 1** | **Autumn 2** | **Spring 1** | **Spring 2** | **Summer 1** | **Summer 2** |
| **Year 10** | **Shape and Space Sculpture/Barbara Hepworth Project**  (16/17 lessons)  ***Research:***  -Photos and sketches of natural and manmade patterns (summer work and study)  -Artists: Focus on Barbara Hepworth and look at other artists (e.g. Henry Moore).  -Learn how to analyse and evaluate research effectively using SETON  -Possible trip (Sainsbury Centre sculpture park)  ***Designing Skills:***  Sketching based on:  -Exploring ‘shape and space’ and inspiration from Barbara Hepworth and patterns research  -2D and 3D sketching skills  \*Introduce ‘Scruffiti’  -CAD:2D Design and Sketchup  -Learn how to effectively annotate and evaluate design ideas  **Manufacturing skills and techniques:**  -At least 2 outcomes using soap carving, wirework and or forming and shaping timbers to create sculptures. Students can use 2/3 different materials to develop the same idea or produce a variety of outcomes  -Manufacturing skills and Health and Safety:  -Shaping, forming, joining and finishing soap, wire and timbers  -How to safely and skilfully use basic hand tools (eg carving tools, coping saw, pliers, files, glass paper, wet and dry paper)  **Evaluating:**  -All research  -All design development as ideas progress  -Manufacturing throughout the process  -Final outcomes | **Shape and Space Sculpture/Barbara Hepworth Project**  (continue and complete) | **Natural forms Body Adornment Project**  (16/17 lessons)  ***Research:***  -Artists: Marjorie Schick, Arthur George Art Smith, Peter Chang and Jane Adam  -Natural forms: primary research sketches and photos  -Existing body adornment products  -Learn how to analyse and evaluate research effectively using SETON  -Learn how to analyse and evaluate products using ACCESSFM  ***Designing Skills:***  Sketching based on:  -Inspiration from nature  -Designing body adornment in the style of an Artist and nature  -2D and 3D sketching skills  \*Introduce tracing paper methods to directly use research  -CAD:2D Design and Sketchup (where appropriate)  **Manufacturing skills and techniques:**  -modelling techniques using card and modelling clay and or clay  -Students experiment with a range of materials and test the best materials and processes for their product  -Metals theory  -Designing for a user and function  -2D Design (for laser cutting if needed)  -Shaping, forming, joining and finishing Polymers, Timber and Metals  **Evaluating:**  -All research  -All design development as ideas progress  -Manufacturing throughout the process  -Final outcomes | **Natural forms Body Adornment Project**  (continue and complete) | **GCSE Mock project**  (16/17 lessons and continued into Year 11)  **Research and Designing:**  Students choose from 2 or exam themes from past papers (e.g. Layers, Objects etc)  -Students use the remainder of the summer terms to gather research and generate design ideas using all previous skills from project 1 and 2  Research will include:  \*At least 2 different Artist/Designer research  \*Possible theme research (primary and secondary sources)  Materials research  (Project 1 and 2 must have also been improved and completed by this point)  Study is used to continue to gather research and create design ideas | **GCSE Mock project**  (continue) |
| **Year 11** | **GCSE Mock project**  **Designing:**  -Students continue to design and develop their design ideas using hand drawn and CAD methods  **Manufacturing skills and techniques:**  -Students model and experiment with a range of materials. Possible protypes are explored  **Evaluating:**  -All research  -All design development as ideas progress  -Manufacturing throughout the process  -Final outcomes |  | **Exam Paper** | **Exam Paper** | **Exam Paper** | **Exam Paper** |