|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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
 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **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 2Research 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** |