**The Latimer Arts College Curriculum Year Overview**

**Subject: Design Technology (DT)**

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|  | **Year 7** | **Year 8** | **Year 9** | **Year 10** | **Year 11** | **Year 12** |
| **Term 1** | *DT is delivered in a rotation. All students will study 8 week blocks of the following*Textiles (Emoiji Keyring)Learning basic textile and sewing techniques by hand and machine to produce a keyring.Graphics Skills (Perspective) Rendering in different materials1 and 2 Point perspective Technical DrawingsDT & CAD 1(Acrylic pocket game)Introduction to 2D design software & laser cutterand general CAD skillsDT & CAD 2(MDF hobby box)Joining techniques, Laser cut Acrylic embellishment and painted finishing techniques | *DT is delivered in a rotation. All students will study 8 week blocks of the following*Textiles (Drawstring Bag) Learning fabric decoration techniques and more advanced hand and machine skills to manufacture a bag.Graphics (Book Cover and Phone Stand) Experience in CAD software 2d Design and Adobe IllustratorDesign a book cover and make an acrylic/vinyl phone holderDT (Pandora’s Box)MDF and AcrylicPewter casting2D CAD design skills | AUTOMATA: Design/ Develop /WS skills MDF, Acrylic Paints, SafetyTHEORY: Core PrinciplesMATERIALS: Plastics, Timber, Metals, Paper and Boards | CADCAM/DESIGN SKILLSOnshape/2D DesignTHEORY: Specialist PrinciplesMATERIALS: Plastics, Timber, Metals, Paper and Boards | NEA: Initial ideas /modelling / research /evaluationRELEVANT THEORY: Specialist Principles 3 | TECHNICAL PRINCIPLES: Materials & Applications -Wood, Metal, Paper, polymer, composite, smart.  |
| **Term 2** | AUTOMATA: Making skills/ Finishing skillsTHEORY: Core PrinciplesMATERIALS: Plastics, Timber, Metals, Paper and Boards | CAD/CAM DESIGN SKILLS:Onshape/2D DesignTHEORY: Specialist PrinciplesMATERIALS: Revision and Quizzes  | NEA: Development/cadRELEVANT THEORY: Specialist Principles 3 | TECHNICAL PRINCIPLES: Performance characteristics/Enhancement of materials, Forming & Distribution, Finishes. |
| **Term 3** | COINSAFE: Designing within constraints. MDF Ply Acrylic. Designing and modelling card. THEORY: Core PrinciplesMATERIALS: Plastics, Timber, Metals, Paper and Boards | NEA MOCK: Research/ Task analysis. Responding to theme/ target market /brief /spec/initial ideasTHEORY: Specialist Principles 2 3MATERIALS: Timber Specialism | NEA: Development /modelling / manufacturing/ testing/ userRELEVANT THEORY: Specialist Principles 3 | TECHNICAL PRINCIPLES: Modern scales of production, Digital Design and Manufacture, Product development & Health & Safety. |
| **Term 4** | COINSAFE: Making, finishing in the style of De Stijl. Varnishing.THEORY: Specialist Principles 2 | NEA MOCK: Initial /ideas /development / modellingTHEORY: Specialist Principles 3MATERIALS: Timber Specialism Exam Style tests | NEA: Manufacture/ evaluationRELEVANT THEORY: Specialist Principles 3 | TECHNICAL PRINCIPLES:Design for manufacturing, Feasibility studies, Enterprise, Design communication. |
| **Term 5** | GADGET TIDY: Using card for modelling, MDF, foam boardTHEORY: Specialist Principles 2 | NEA MOCK: Manufacturing/EvaluationTHEORY: Specialist Principles 3MATERIALS Exam style tests | THEORY REVISION | DESIGNING & MAKING PRINCIPLES:Design methods, Design theory, Technology and cultural change. |
| **Term 6** | GADGET TIDY: Using card for modelling, MDF, foam boardTHEORY: Specialist Principles 2 | NEA: Task exploration / Research/ Brief /SpecRELEVANT THEORY: Specialist Principles 3 | THEORY REVISION& EXAMINATION | DESIGNING & MAKING PRINCIPLES:Design processes, critical analysis, selecting tools & processes, accuracy in design |