Content & Skills overview

Design Technology

Year 6 – end of Primary	Year 7	Year 8	Year 9	Year 10	Year 11	School Leavers at 16	Year 12	Year 13	School Leavers at 18
Design – Research, Design and develop ideas Make – select tools and equipment to make practical outcomes Evaluate – evaluate existing products and their own designs and work Technical knowledge – structures, and different systems This is a simplified version of the KS2 POS. *However, based on what we know from speaking to our students that they don't cover much of this at their primary schools. They may do some designing but it is not consistent across the feeder schools.*	Introduction to Drawing Metal working skills and theory Electronics Basic soldering skills, some CAD designing and modelling Wood working skills and theory Modelling Sewing machine skills (hems, applique) Fibre sources and properties Fabric construction	CAD Virtual Modelling, Electronic simulation Sewing skills (seams, zips, decoration techniques) Fibre sources and properties Design in a context and design strategies Smart Materials Wood working skills Mechanical Devices Knowledge of designers and design strategies Moral and social issues	Modelling Electronics Soldering skills and identification of parts, PCB Assembly Wood working skills and theory Life cycle analysis Smart and composite Materials Sewing skills (seams, zips, pattern cutting) Accessories project working with metal (2022) Structures & Forces	**Edexcel DT** New and Emerging Technologies Smart Materials Mechanical Devices Electronics Basic input/process/output Metals properties Timber Properties Textile Properties Plastic Properties Paper and Board Properties Designing to a context Past and present designers Moral and social issues Practise Contextual Study Timber Specialism Textiles Specialism	**Edexcel DT** NEA – set by the exam board contextual study which is 50% of the final grade. Revision and Exam skills	A-level 3D Design (HPS) Fashion Retail Academy Leyton 6th form college – textiles, graphic design Epping College/Waltham stow College/CONEL – Construction City of Westminster college	**3D Design A-Level** (AQA Art & Design suite) from September 2022 Material skills; Paper & Board, CAD/CAM, Timber and Ceramics Visual Communication Skills; Drawings and rendering techniques, photography Furniture and Architecture based Design Development Personal Investigation (PI); Individual exploration of context, material and design including extensive model making.	**3D Design A-Level** - first cohort to complete course 2024 Continuation of Personal Investigation (PI); Individual exploration of context, materials and design concluding a substantial outcome. Collation of Personal Investigation into Portfolio for assessment and interview. Board set Exam. Investigations and development leading to Substantial outcome in the Practical Exam	Architecture, Interior Design and Product Design degree courses.

				Paper and Board Specialism Model making Systems Specialism Soldering skills CAD modelling Systems understanding Mini Practical Inc. woodwork skills Construction skills for specialist areas					