

YEAR 9

Timber material properties and applications, Mood Board, Client Profile and Design Ideas.



Timber Joints, Timber specialist techniques and processes, Health and safety in the workshop, CAD/CAM, Testing and Evaluation.

Theory & Research

Design

Make & Evaluate



Materials and their working properties, Paper and board shaping, cutting and processing.

Theory & Research

Design

Make & Evaluate



Select and use appropriate hand tools and machinery safely, tolerances and allowances, Surface treatments and finishes, testing and evaluation.

Sustainability and the environment, energy generation, ecological and social footprint, The 6 Rs.



Two-point perspective drawing, Prototype modelling, Iterative Design Process, Design communication.

Communication of design ideas and prototype development, Sketching, 3D Modelling, Testing and Evaluation.



The Six Rs, Design strategies, Paper and Board, Shaping, Cutting and Processing



YEAR 10

Theory, Research & Design

Make & Evaluate

Exam Theory & Revision

Theory & Research

Design, Make & Evaluate

NEA Project

Materials and their working properties, Mechanisms, Electronic Systems processing, Design communication, specialist tools, equipment, techniques and processes, testing and evaluation.



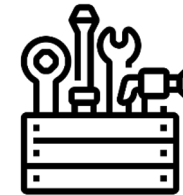
Core technical principles, specialist technical principles and designing and making principles



Context analysis, initial research, Client profile, design brief and Work of others.

YEAR 11

Specification, design ideas, design idea development, Modelling, testing, evaluation, material testing, final design, manufacturing specification.



Testing, evaluation and design development.



NEA Project

NEA Project

NEA Project

Exam Theory & Revision



Manufacturing NEA prototype, quality control and testing.



Core technical principles, specialist technical principles designing and making principles

Interleaved strands

Research

Theory

Design

Make

Evaluate