YEAR 9

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

Theory, Research & Design

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

Make & Evaluate

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

Theory & Research

Two point perspective drawing, testing, Prototype modelling, Iterative Design Process, Paper and board shaping, cutting and processing, evaluation.

Design, Make & Evaluate

Materials and their working properties, mechanical devices, Design communication, isometric drawing, Prototype modelling and testing.

Theory, Research & Design

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

Make & Evaluate

YEAR 10

Materials and their working properties, Work of others, Health and Safety in the Workshop, Design Communication, Sketching, CAD/CAM, 2D Design Programme and Evaluation

Theory, Research and Design, make and evaluate

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

Theory, Research and Design, make and evaluate

Sustainability and the environment, Ecological and social footprint, The Six Rs, Design strategies, Paper and Board, Shaping, Cutting and Processing

Theory & Research

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

Design, Make & Evaluate

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

Exam Theory & Revision

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

NEA Project

YEAR 11

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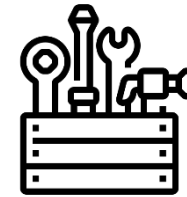
NEA Project

Manufacturing NEA prototype, quality control and testing.

NEA Project

Testing, evaluation and design development.

NEA Project

Core technical principles, specialist technical principles designing and making principles

Exam Theory & Revision

Interleaved strands

| Research | Theory | Design | Make | Evaluate |