



## YEAR 12

Materials and their applications, performance characteristics of materials, Design theory, designing methods and processes, selecting appropriate tools, equipment and processes, Health and safety in the workshop, CAD/CAM, critical analysis and Evaluation



**Theory, Research & Design, Make & Evaluate**

Enhancement of materials, forming, redistribution and addition processes, the use of finishes, digital design and manufacture, health and safety, protecting designs and intellectual property, design for manufacturing, maintenance, repair and disposal, feasibility studies, enterprise and marketing in the development of products, design communication

**Theory, Research & Design, Make & Evaluate**



Technical principles, designing and making principles.

**Exam Theory & Revision**



**A-Level NEA**

Generating a context, Context analysis, identifying a problem, initial research, identifying a client



## YEAR 13

Product analysis, client interview, design brief, design specification, initial ideas, client feedback



**Theory, Research & Design, Make & Evaluate**

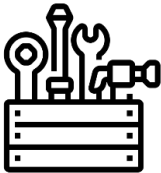
Design development, material testing, prototype modelling and testing, client feedback, final design, technical drawings, cutting list, manufacturing plan

**Theory, Research & Design, Make & Evaluate**



Prototype manufacture, quality control checks

**Theory, Research & Design, Make & Evaluate**



**Theory, Research & Design, Make & Evaluate**

Prototype testing and evaluation, client feedback, evaluation against the specification, further prototype developments



Technical principles, designing and making principles

**Exam revision**



### Interleaved strands

Research

Theory

Design

Make

Evaluate