THE WINSFORD ACADEMY

KS4 Design Technology Learning Journey

Year 11

Mock exam

AP

Commercial production methods
Standard stock sizes
Costings
Workshop manufacturing methods

CIM, QA and QC, JIT

Forces, stresses and material degradation

Fixtures, fittings, knockdown furniture

Terminal exam

A Level Design Technology

Component 1

AP

Courework

Analysing and evaluation design decisions and prototypes

Manufacturing a prototype

AP

Mock exam

Generating and developing design ideas

Developing a design brief and a specification

AP

Identifying and investigating deign possibilities

Component 2

Coursework

June 1st Coursework design context released by exam board For start.

AP

Mock exam

Design Context CAD/ CAM mini project to consolidate learning

Component 1

AP

Materials – properties, characteristics and commercial use

Papers and Boards

Hardwood, Soft wood, Timber and engineered wood Laminates

Ferrous and Non-ferrous

Polymers- thermo forming/ Thermosetting

Smart and Modern materials

Ecological foot print

Fuels/ energy

CAD/ CAM

AP

Mechanical components and systems

Electronic and Manufacturing Systems

Component 1

AP

Moral and ethical factors

Global Production

Impact of new and emerging technologies

Life cycle analysis

Year 10

Design Technology and our world