

Demonstrate the application of a range of tools/processes and machinery

Apply CAD/CAM operations

Evaluate a finished prototype against the needs of the user

Assess individual knowledge and understanding for exam content.

Life after year 11??



Design Technology Learning Journey

Develop a range of ideas for our intended user

Gather and assess different sources of research

Identify and develop a brief for a specific user

Year 11
ORMISTON SWB ACADEMY

Theory: Smart/New and emerging technologies

Demonstrate how to evaluate a concept

Application of more complex CAD commands

Develop a specification

Review of the year

Year 10
ORMISTON SWB ACADEMY

Identifying how to meet the needs of a specific user

Analyse existing products, processes and materials

Develop a specification

Identify the Quality control

Practical: Side Table

Practical: Mortice Puzzle

Appropriate tools and processes to manufacture

Manufacture of portable speaker

Drawing techniques and principles

Introduction to Anthropometrics and ergonomics

Practical Quality: Control and finishing

Practical: Joints for Keep Sake Box

Introduction to Joints

Introduction to tools and processes

Principles of Health and Safety

Introduction to electronics and soldering techniques

Practical: Cutting, shaping and filing

Practical: Quality Control application

Practical: Quality control and assembly

Review of the term

Year 9
ORMISTON SWB ACADEMY

Principles of Timber

What have you learnt at KS3?

Practical: Jig application and marking out

Practical: File Application and Sand Paper

Practical: Quality Control and Coping Saw

Practical: Sanding Disc

Practical: Marking out and Mitre Saw

Isometric Drawing and Rendering

Brief/User and Specification

What have you learnt in year 7? Health and Safety

Assembly and Quality Control

Material Categories & Machinery

Practical: Marking out and Drilling

Practical: Marking out and Line Bending

Practical: Cleaning surfaces and Quality Control

Review of the term

Year 8
ORMISTON SWB ACADEMY

Practical: Pillar Drill/Quality Control

Practical: Marking out

Design Ideas: Phone Holder

Design Specification

Design Brief and user needs

Risk Assessment: Wood Workshop

Year 7
ORMISTON SWB ACADEMY

Practical: Files and Sand Paper

Practical: Saws/Cutting

KEY

- PRACTICAL
- DESIGN
- THEORY / ANALYSIS
- REVIEW