KS4 Learning Roadmap- GCSE Product Design

GUISELEY SCHOOL

Start

Yr. 10

Term 1

Produce presentation drawings of a toy train

Toy train project

Manufacture a toy train using workshop tools

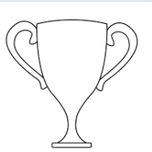
End of Unit Assessment / Cycle 1 Assessment

Cycle 1 Assessment

Term 1

Trophy project

Manufacture a trophy including a halving joint & dowel joint using workshop tools



Research and understand resistant material properties and their uses

Storage box project - sides

Term 2

Manufacture storage box sides including a lap joint & comb joint using workshop tools

Research and understand tools & equipment used in timber processing

End of Unit Assessment / Cycle 2 Assessment

Storage box project – base & lid

Manufacture storage box base & lid including a rebate joint & CAM etched design using workshop tools & equipment

Yr. 11

NEA: Design

NEA (coursework) design & development of ideas

NEA: Investigation

NEA (coursework) investigation (research)

CADCAM slot together landmark

Term 3

End of Unit Assessment

Manufacture a slot together landmark model using CAM machinery

Understand the factors involved in modern day design e.g. new & emerging technologies / sustainability

NEA: Making

NEA (coursework) practical & write up

Exam Theory revision on exam topics

Term 2

PPE – Mock Exam

NEA: Evaluation & submission

NEA (coursework) evaluation & submission ~Easter – worth 50% of qualification

Exam Theory revision on exam topics

Recall and remember key knowledge & understanding of Product Design concepts

Exam

Term 3

Written exam ~May/June – worth 50% of qualification

Recall and remember key knowledge & understanding of Product Design concepts

Exam & Post 16 Destination

A-level qualifications

Vocational qualifications

Apprenticeships