

Curriculum Learning Journey: GCSE Design & Technology



Preparation for external assessment involving exam technique and revision of essential knowledge from year 10 and 11 programme of study

Exam Preparation



AO1 Identify, investigate & outline design possibilities

Students will apply all they have learnt throughout key stage 3 and 4 to their own individualised project based around a theme provided by the exam board.

Non Exam Assessment

Materials: Wood



Learners will learn about different types of hard woods and softwoods, tools and equipment, sustainability, finishes and commercial production methods

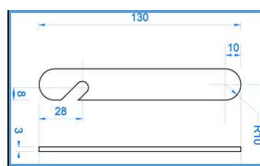


Materials: Plastics



Learners will explore different types of plastic, its uses, recycling and environmental considerations, how it is made, where it comes from and how to design products in this most versatile material.

Materials: Metal



The learner must know about:

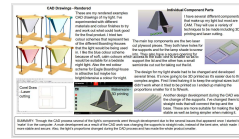
- Types of metal
- Where metal comes from
- How metal is manufactured
- How to work in metal
- Tools and equipment
- Finishes for metal
- Joining methods

Learners will develop an understanding of metal, where its from, its working properties and the distinct groups of ferrous and non ferrous metals as well as practical applications, tools and manufacturing processes

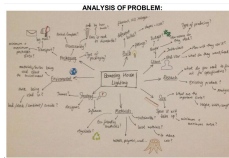
Analysing & evaluating



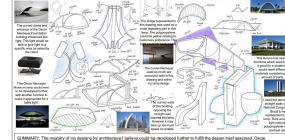
Realising design ideas



Identifying & investigating design possibilities



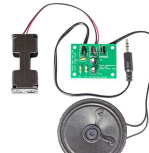
Generating design ideas



YEAR 11



Design and make project based around a mono amp circuit where students adapt and modify a given speaker enclosure using CAD CAM.



Electronics



YEAR 10

Key Stage 4



Key Stage 3

GCSE Design and Technology will prepare students to participate confidently and successfully in an increasingly technological world. Students will gain awareness and learn from wider influences on Design and Technology including historical, social, cultural, environmental and economic factors. Students will get the opportunity to work creatively when designing and making and apply technical and practical expertise.



External assessment

Key Stage 5 Further study and careers in:
Construction
Architecture
Product Design
Interior Design
Manufacturing
CAD/CAM
Creative Industries

Key Stage 5