

Technology and Design Department Curriculum Overview



List of Teachers:

Mr I Hynds (HOD)

KS3 – Pupils have one Technology and Design lesson per week

Year 8 – Pupils are introduced to the workshop with the emphasis on safety. A broad range of equipment and processes are used.

Year 9 – Pupils build more complicated products with a greater emphasis on design.

Year 10 – Pupils design and make their own products within certain parameters. This is in preparation for GCSE. A CAD/CAM unit is also completed.

GCSE - Pupils study the CCEA GCSE Technology and Design Specification

Unit 1: Technology and Design Core

This unit is compulsory for all students. It comprises manufacturing, electronics, mechanical control systems, computer control systems, and pneumatic systems and control.

Unit 2: Systems and Control (optional unit)

Pupils study the Mechanical and Pneumatic Control Systems option

Unit 4: Design Assignment

This unit is compulsory for all students. CCEA issue a choice of design tasks each year.

Unit 5: Design Project

This unit is compulsory for all students. Students will complete Element 2: Product Design and Manufacturing, again CCEA issue a choice of tasks each year.

A Level - Pupils study the CCEA GCE Technology and Design Specification

AS Unit 1 (2 hour exam) – Product Design and Systems Control (Mechanical and Pneumatic option)

AS Unit 2 - Coursework: Product Development

A2 Unit 1 (2 hour exam) - Systems and Control (Mechanical and Pneumatic option)

A2 Unit 2 - Coursework: Product Design and Manufacture

Each unit has equal weighting.

Extra-Curricular