

Exam Board: WJEC
Qualification: Level 1/2 Vocational Award in Engineering (Technical Award)
Assessment Information: 2 controlled assessments:
total 30 hours, 60%
1 exam 1h 30 min, 40%

[Link to official specification](#)

Department Information:

The Design Technology department empowers students to explore creativity and innovation through hands-on learning. Our curriculum covers product design, engineering, and Textiles, emphasizing sustainability and real-world applications. With good facilities, we cultivate technical skills and critical thinking, preparing students for future careers in the dynamic field of design.

By integrating these values into the curriculum and classroom culture, we can cultivate well-rounded students who excel not only in Design Technology but in their overall personal development.

ACHIEVE in the curriculum:

AMBITION: Students are encouraged show ambition throughout the course, tasks are offered at a variety of difficulty levels providing students with the opportunity to stretch and challenge themselves. Students are taught to behave with integrity, particularly when using tools and machinery.

Curriculum Aims & Intent:

The aim of this course is to provide students with a solid grounding in basic engineering skills, including (but not limited to) the use of hand tools and machinery, project planning (materials, time, budget, H&S), technical drawing (hand drawing and CAD).

This vocational course is an excellent first step to a career in Engineering and/or provides learners with a wide range of valuable transferrable skills for other career paths, including: practical, organisational, and teamwork skills, among others.

Resources:

WJEC.co.uk

Textbook: Level 1/2 Vocational Award – Engineering. Author: Matthew Wrigley. ISBN: 978-1-86085-751-5

How we keep parents informed:

Year 11 - Progress reports are published 4 times per year, in October, December, February and March, with a face-to-face parents' evening in October.

How parents can help their child:

Support with good attendance.

Support with homework completion and timely submission.

Attend parents' evenings.

Communicate concerns at earliest opportunity.

What we study and when:					
Term	Unit, Topic Or Summary Of Work Covered	Knowledge, Understanding & Skills Developed	ACHIEVE / Personal Development Focus	How The Work Is Assessed	Careers Links
1 (Sept – Oct HT)	<i>Continuation of controlled assessment 1 set by exam board. Completion of planning phase started at the end of Yr.10, moving into and completing the practical element of the assessment.</i>	<i>Application of previous knowledge learnt in Yr10, including project planning and a range of practical skills including using CAD, working with metals and using the lathe.</i>	<i>Ambition – inspiring students to complete the task to the best of their ability.</i>	<i>The completed assignment is assessed by the teacher then moderated by the exam board.</i>	<i>After summer, students rewatch the careers video from Yr.10 to inspire/remind them of where the course could take them.</i>
2 (Oct HT – Christmas)	<i>Completion of controlled assessment 1 followed by preparation for cont.amt 2 starting after Christmas.</i>	<i>Application of previous knowledge, as above, to complete the practical element of the assessment.</i>	<i>Versatility – drawing on a range of skills to complete tasks.</i>	<i>As above.</i>	<i>As above</i>
3 (Jan – Feb HT)	<i>Introduction of controlled assessment 2 (designing engineering products) set by exam board.</i>	<i>Application of previous knowledge learnt in Yr10, how to use CAD for Engineering.</i>	<i>Endurance – students move onto the second of two assessment tasks, requiring the endurance to maintain focus throughout.</i>	<i>As above.</i>	<i>As above.</i>
4 (Feb – Easter)	<i>Completion of controlled assessment 2 followed by exam revision in preparation for final exam.</i>	<i>Application of previous knowledge learnt in Yr10, how to use CAD for Engineering. Recall and application of previous knowledge learnt for exam revision.</i>	<i>Endurance – to maintain focus throughout revision and into final exam.</i>	<i>As above.</i>	<i>Periodic links to engineering careers provided, relevant to term tasks.</i>
5 (Easter – May HT)	<i>Revision for final exam – solving Engineering Problems.</i>	<i>Further revision revisiting topics and completing practise exam questions.</i>	<i>Endurance – as above.</i>	<i>Final exam marked by exam board.</i>	<i>As above.</i>
6 (May HT – Summer)	<i>Students on study leave.</i>	<i>Revision.</i>	<i>Integrity – to revise.</i>	<i>As above.</i>	<i>N/A.</i>