ENGINEERING

Option

What Will I Learn?

The Engineering course is now a highly academic and theoretical course, with an emphasis on Design, Mathematics and Physics. With there no longer being any type of assessed practical exam (and only a fraction of marks being awarded for coursework practical) the vast majority of lesson teaching time will be focused on teaching the theory of Engineering and Design. This will include understanding, interpreting and generating technical drawings, material properties, designing to a client brief, CAD skills etc, and then some practical workshop skills. It is recommended that since the final exam paper is so biased towards mathematical calculations and scientific principles that pupils should be expecting at least a GCSE Level 5-6 in these subjects before considering taking the Engineering course.

How Will I Be Assessed?

Assessment is approximately 2/3 coursework based, with 1/3 assessed by a written exam with a theme set by the Exam Board, (WJEC). Coursework begins in Y10 and continues into Y11; the written exam will be at the end of Y11.

The course will be assessed in a variety of ways including written coursework, quality of design and communication skills and knowledge tests. The assessment will take place on a continuous basis from the start of the course, therefore you will need to be motivated and focused on the work at all times.

The coursework based work will include a design task where you will need to design a new product to a set brief as well as a task where you will need to interpret an engineering drawing/data tables and make a simple component.

What Career Could This Course Lead To?

This course will allow you to access a range of Engineering courses at college (mechanical engineering, civil engineering, aeronautical engineering) either full time or as part of an apprenticeship linked to employment, and could lead to vocational work in engineering and employable skills within the manual engineering sector.

Which Qualification Will I Receive?

WJEC Award in Engineering