



## Why study Engineering at Formby High School?

Engineering is a new subject within our existing suite of BTEC courses. This course is designed for learners who are interested in a career in the engineering sector and want to progress to further study in this direction. Our students achieve consistently high grades in the BTEC courses, with the majority of students achieving from Merit to Distinction\* grades. Engineering covers a broad variety of roles. It involves the application of scientific principles and practical knowledge to safely transform ideas and materials into products and systems, and support them during their lifetime. This qualification focuses on a broad range of engineering specialist areas. You will learn about engineering principles and Mathematics, health and safety, team work, interpreting and creating computer-aided engineering, drawings, design and manufacture of products.

### What does the course involve?

The course will consist of four units in order to qualify for a BTEC Level 3 Extended Certificate in Engineering:

**Engineering Principles** – a third of the course, an external examination which must be passed to achieve this qualification.

**Delivery of Engineering Processes Safely as a Team** – a sixth of the course, a written report, which is internally assessed.

**Engineering Product Design and Manufacture** – a third of the course, a timed external controlled assessment, which must be passed to achieve this qualification.

**Computer Aided Design in Engineering** – a sixth of the course, an internally assessed portfolio.

### What can the qualification lead to?

As a student with a BTEC Level 3 qualification in Engineering, you have access to a wide range of possible careers and higher education opportunities. The subject is recognised by higher education providers as contributing to meeting admission requirements for a variety of courses in the engineering sector; for example, BEng (Hons) in Engineering, BEng (Hons) in Electronics Engineering, BSc (Hons) in Computer Science or Mathematics. This qualification could also lead to job opportunities in the engineering sector such as engineering operatives, semi-skilled operatives or manufacturing operatives. It also supports those following an apprenticeship in engineering who are looking to work and progress in the engineering sector as an engineering operative.

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*I am really enjoying studying BTEC Engineering. I have developed lots of new skills, particularly around using CAD. We are challenged to use professional standard software to complete a piece of coursework. I have found this incredibly interesting and it will benefit me incredibly when applying for a university course in Geology and Oceanography. Whilst the course is not pure Engineering it has an engineering unit, in which we study the impact and development of wind farms and wind turbine technology and my engineering experience will enhance my studies. The external exam units are intense, giving me real insight in to understanding the impact of Science and Maths when solving engineering problems. Through the team work project, I have improved and developed my leadership skills, again an invaluable skill for the future.*

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**Ben chose to stay at Formby High for Sixth Form**

### What are the entry requirements?

- Grade 5 in GCSE Physics (or the Physics component of GCSE Trilogy Science)
- Grade 5 in GCSE Mathematics
- Grade 4 in GCSE Design Technology (if studied)

### Which other subjects complement Engineering?

- Art
- Computer Science
- Mathematics
- Physics
- Business

