

# BTEC Engineering

BTEC Level 3 Diplomas are designed to provide specialist work-related qualifications in a range of sectors. The Engineering course prepares students for further study or a career in Engineering by giving them a good understanding of the main sectors including electrical, mechanical and CAD/CAM along with the underpinning knowledge of Engineering maths and science. Students who successfully complete the two years of study will receive the nationally recognised BTEC Level 3 Diploma in Engineering, the equivalent of two A2 Levels. With a national shortage of skilled Engineers and the continual expansion of the engineering industry especially within the North East, this course is your first step into a specialised and rewarding career.



**Entry requirements:** 5 A\* – C including Science and Maths at grade 5

## *What will you be learning?*

The subject content is divided into a number of units with the following making up your first year of study:

- Unit 1: Engineering Principles.
- Unit 2: Delivery of an Engineering process safely as a team.
- Unit 9: Work experience in the Engineering Sector.
- Unit 10: Computer Aided Design in Engineering.
- Unit 19: Electronic devices and Circuits.



## Case Study:

I chose St. Roberts because I believe St. Roberts has an outstanding reputation for achieving excellent grades and bringing the best potential out of all students who attend this school. Not only does this school deliver excellent grades, but also produces all round students who acquire life skills during their PSHE lessons. St. Robert provides brilliant facilities with up-to-date technology that allows the students to receive the best learning possible. The staff are friendly and approachable and strive to deliver excellent teaching. I chose Engineering as it will help me with my future ambition to work in this field. I have been attending Sixth Form now for at least three months, and in that time I have acquired new skills and met many new, friendly, welcoming people. The lessons are always well structured and consistent.

In all the above modules the aim is to give students an understanding of how the various principles influence products and services. Involving an extensive and experimental hands-on approach to problem solving rather than the pure theoretical approach. Area of knowledge will be drawn from national curriculum at Key Stage 4 (GCSE)

## **What skills will I develop?**

Throughout this two year course, students develop their research, Design and manufacturing skills as well as the knowledge required to manage their own projects in the Engineering sector.