

DESIGN & TECHNOLOGY

BTEC ENGINEERING

BTEC TECH AWARD

Content of the Course

Year 9	Working on small projects and developing hand skills
Year 10	Component 1: Exploring Engineering Sectors and design applications Component 2: Investigating an Engineering Project
Year 11	Component 3: Responding to an Engineering Brief (externally assessed exam)

Throughout the course, you will be taught how to interpret engineering information, work safely using a variety of tools and equipment and how to identify specific materials used in engineered products. You will investigate the wider world of engineering. You will also be shown how to investigate and create solutions to given engineering problems in preparation for a practical exam.

Skills Students Will Learn Through The Course

- Hand cutting and shaping of metals
- Machining using the lathe and pillar drill
- Interpreting engineering drawings and data
- Using plasma cutting and welding techniques to make a product
- Using dis-assembly and research techniques to identify materials
- Using testing procedures to identify material properties
- Researching engineering sectors, materials and processes in the wider world

How Will the Final Grade Be Decided?

- In each section of work you will be expected to produce a portfolio of writing, drawings and photographs showing what you have done.
- The externally assessed component will be set and marked by Pearson and make up 60 marks towards the final grade.
- Students will attain one of the following grades, depending on their total points score: P, M, D, D* (P=Pass, M=Merit, D=Distinction, D* = Distinction star).

What Do Students Think?

"I really enjoy studying a hands on subject."

"Engineering is my favourite subject because I enjoy using modern technology."

"I have really enjoyed Engineering, even though it is hard work. I particularly enjoy the subject because you get to learn manual skills and I can now apply for apprenticeships with confidence."

What Can I Do With Engineering?

Apprenticeship in a related field, further study at college or Sixth Form

Apply the skills learnt in the course to other courses, applications and life skills.

BTEC units are portable - any unit you pass will be given credit by employers.



During the course, you will have a series of assessments in which you are expected to show that you have the required knowledge and understanding.