

Applied Science

(BTEC Level 3)

What will I learn about?

A Level 3 BTEC in Applied Science meets the needs of employers who are looking for well qualified and skilled people to work in the fields of Science, Technology, and Engineering. Students will benefit from acquiring technical and employability skills, alongside a greater confidence in the knowledge and understanding of core scientific principles.

This qualification is aimed at students who prefer to study our specialist science curriculum through assessments rather than exams. All three sciences – Biology, Physics, Chemistry – are taught but in a “real life” context.

Students will acquire a high level of practical laboratory skills, alongside a context-based approach to delivering the theory. Modules include Biomedical Science, Material Science, Forensic Science, and Astronomy.

How is the course structured?

Module content includes:

- Principles and Applications of Science 1
- Practical Scientific Procedures and Techniques
- Science Investigation Skills
- Laboratory Techniques and their Application
- Principles and Applications of Science 2
- Contemporary Issues in Science
- Physiology of Human Body Systems
- Electrical Circuits and their Application
- Microbiology and Microbiological Techniques
- Biomedical Science
- Materials Science
- Applications of Medical Physics

How will my work be assessed?

There are 13 units making up the extended diploma. 7 of these are compulsory and the other 6 are chosen from the option block and compliment the skill set of our teachers. 4 of the units are assessed externally by written exam, the remaining 9 are internally assessed and externally verified. Each unit carries points which equate to either a Pass, Merit or Distinction grade.

- The course is split into modules with each module being assessed upon completion.
- Therefore there will be multiple assessment points throughout the year.
- There are four external assessment modules and these will be assessed in either February or May of each year.
- The attained grades for each module will be combined to give an overall grade for the course.

Where will this course lead to?

Students who gain a BTEC Extended Diploma in Applied Science are generally well regarded by companies and apprenticeship providers as they will have both good theoretical knowledge and evidence of developing practical skills.

The course also provides a clear pathway to studying Science at university and can often be combined with an A-Level in Mathematics to strengthen these applications. This subject can lead to careers in: Laboratory Scientist, Forensic Science, Biomedical Science, Paramedic, Biomedical Technician.