

Applied Science

BTEC Level 3 (National)

Applied Science is a BTEC Level 3 National qualification, equivalent to one A Level. The course combines scientific theory with practical laboratory work, allowing you to explore biology, chemistry and physics and understand how science is applied in real-world settings.

Entry Requirements

- **Minimum Standard:** Five or more grades at 4+ in GCSE or equivalent, including English and Maths.
- **Additional Criteria:** Minimum standard with a 5+ in at least two of Biology, Chemistry or Physics or a 5-5 in Combined Science.

What will you learn?

Across the two years you will study 4 mandatory units. These mandatory units will develop your practical laboratory skills, enable you to plan investigations, train you to produce scientific reports, use microbiological techniques and develop your ability to evaluate case studies.

You will study:

Unit 1: Principles and Applications of Biology

Unit 2: Principles and Applications of Chemistry

Unit 3: Principles and Applications of Physics

Unit 4: Practical Scientific Procedures and Techniques

Alongside the mandatory units, you will also study optional units which will enable you to study more specific sectors in depth, such as Physiology of Human Body Systems, Diseases and Infection, Microbiology, Applications of Organic Chemistry or Biomedical Science.

How will you learn?

You will learn through a mix of classroom theory, hands-on laboratory practicals and independent coursework assignments. BTEC Nationals in Applied Science combine biology, chemistry and physics with real-world applications.

Practical and Theory Lessons

- **Core Science:** Study principles of Biology, Chemistry and Physics through lectures, discussions and digital presentations.
- **Laboratory Skills:** Learn industry-standard techniques, including titrations, calorimetry, using pH meters and preparing accurate chemical solutions.
- **Data Handling:** Record experimental data, plot graphs and perform concentration or molar calculations.

How will you be assessed?

50%

External assessment

Written exams set and marked by Pearson, covering key principles in Biology, Chemistry and Physics, with opportunities to resit.

50%

Internal assessment

Teacher-assessed practical tasks, scientific investigations and written assignments, focusing on laboratory skills and real-world science.

Where will it take you?

Applied Science Level 3 National can lead to Higher Education, apprenticeships or employment within science-related industries. You may progress to a degree in Forensic Science or other Applied Science fields, such as Forensic Archaeology, Biomedical Science or related scientific disciplines. It provides a strong foundation for a wide range of careers and further study within laboratory, healthcare, forensic and scientific settings.

Who should you talk to?

Please speak to Mrs Lambert or email:
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