



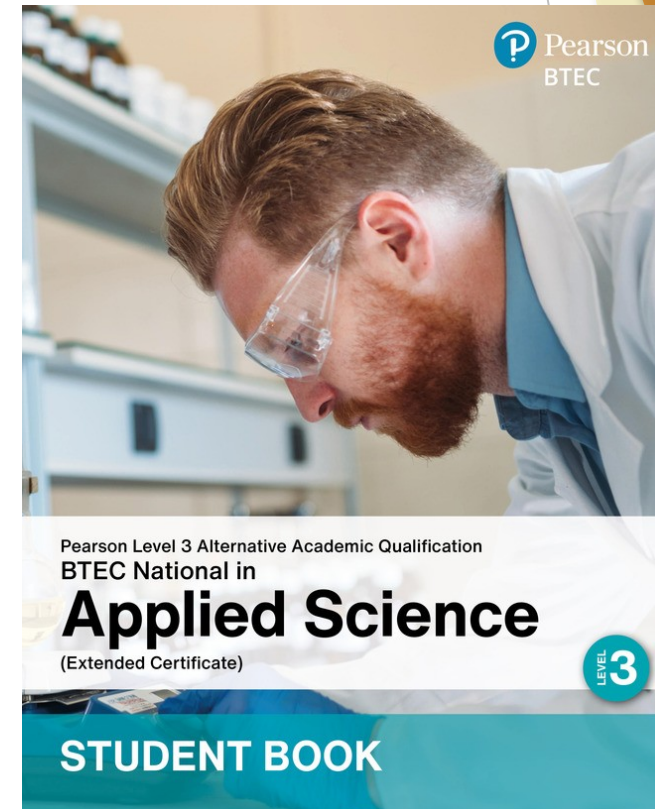
**Applied Science (BTEC Level 3  
Extended Certificate)**

2025-26

# What is Applied Science?

The Pearson Level 3 Alternative Academic Qualification BTEC National in Applied Science (Extended Certificate) enables students to study the principles and applications of biology, chemistry and physics, as well as practical scientific procedures and techniques.

Students will also have the opportunity to develop their investigation skills or explore contemporary issues in science.



# What Careers Can Applied Science Lead Into?

- ▶ Forensic Science
  - ▶ Biomedical Science
  - ▶ Microbiology
  - ▶ Nursing
  - ▶ Midwifery
  - ▶ Paramedic Science
  - ▶ Pharmaceutical Science
  - ▶ Radiography
  - ▶ Engineering
- ▶ The course is also a useful foundation for laboratory work and industrial science or if you would like to continue on to Higher Education.



<p><b>Pearson Level 3 Alternative Academic Qualification BTEC National in Applied Science (Extended Certificate)</b></p>	<p>360 GLH (500 TQT) Equivalent in size to one A Level. 4 units mandatory units, of which 3 are externally assessed. 2 optional units, of which one must be selected. Mandatory content (75%). External assessment (50%).</p>	<p>The Extended Certificate is for students who are interested in learning about the Applied Science sector alongside other fields of study, with a view to progressing to a wide range of higher education courses, not necessarily in Applied Science - related subjects.</p> <p>It is designed to be taken as part of a programme of study that includes A Levels.</p>
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# How Will I be Assessed in Applied Science?



## Key

Externally assessed units are shown in bold



Mandatory units



Optional units

Unit (number and title)	Unit size (GLH)	Certificate (180 GLH)	Extended Certificate (360 GLH)
<b>1 Principles and Applications of Biology</b>	60	M	M
<b>2 Principles and Applications of Chemistry</b>	60	M	M
<b>3 Principles and Applications of Physics</b>	60	M	M
4 Practical Scientific Procedures and Techniques	90		M
5 Science Investigation Skills	90		O
6 Contemporary Issues in Science	90		O

# Unit 1- Principles & Applications of Biology

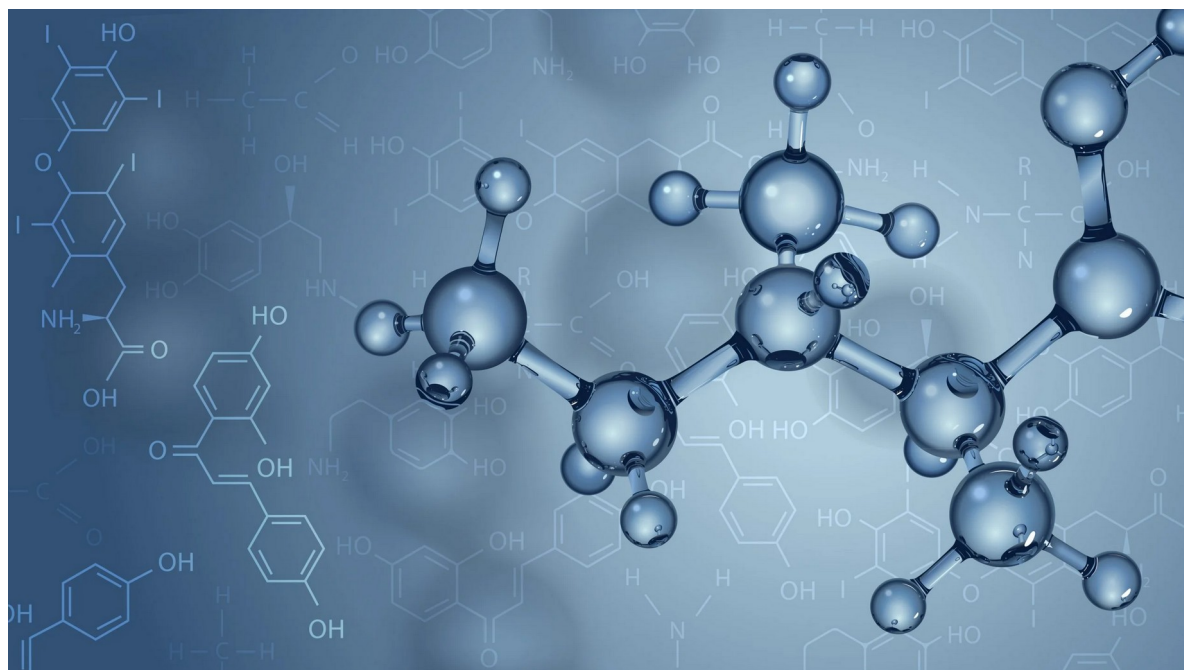
- ▶ Unit 1 - Biology
- ▶ This unit explores the key components of biological science. It will examine cells and tissues, their varied structures and functions and the biological components that interact with their existence.

**Cell Organelles**



# Unit 2- Principles & Applications of Chemistry

- ▶ Unit 2- Chemistry
- ▶ Students will explore some of the fundamental concepts which underpin the chemistry and chemical reactions of the world around them.



# Unit 3 - Principles & Applications of Physics

- ▶ Unit 3 - Physics
- ▶ Students will explore the use of practical and mathematical skills in the study of waves, motion and electricity.



# Unit 4 - Practical Scientific Procedures and Techniques

- ▶ Students will be introduced to quantitative laboratory techniques, including chromatography, colorimetry and laboratory safety, which are relevant to the scientific laboratory environments.



# Unit 6 - Contemporary Issues in Science

- ▶ This unit will explore contemporary science issues and their impact on the world we live in. It will develop the students' skills of analysis and interpretation across a broad range of scientific issues while exploring how they are reported in the media and in publications.
- ▶ Learning aims In this unit you will:
  - ▶ A Investigate contemporary scientific issues that impact the global population and environment.
  - ▶ B Examine the effect different organisations have on contemporary science.
  - ▶ C Understand how to evaluate and report scientific information



# 2023 Results

100% pass rate (3 students)

All students achieved merits

# 2024 Results

100% pass rate (9 Students)

3 Distinctions

5 Merits

1 Pass



# 2025 Results

100% pass rate (10 students)

1 Distinction\*

4 Distinctions

3 Merits

2 Passes



# What are the Entry Requirements for Applied Science?

▶ **Course entry requirements:**

- 5,5 in Combined Sciences
- A minimum of a grade 4 in English and Mathematics

