

APPLIED SCIENCE

BTEC LEVEL 3 EXTENDED CERTIFICATE

QUALIFICATION

BTEC Level 3 National Extended Certificate
Exam Board: Pearson Edexcel

REQUIREMENTS

GCSE Biology and Chemistry Level 4 or Combined Science 4-4 (from Trilogy)
Level 5 in GCSE Mathematics and English (high Level 4 considered)

Why study Applied Science?

This course is a vocational qualification that is equivalent to 1 A Level. It links directly to jobs that Scientists do in hospitals and industry laboratories.

This course includes assignments, controlled assessments and examinations.

The course is specifically designed for students that have an interest in vocational science but prefer a more coursework centred assessment

What skills are required?

In order to complete this course successfully you will need to have a good work ethic, be well organised and work to given deadlines.

You will be a creative thinker and be able to express your scientific ideas clearly, both in writing and oral presentation. The course does require assignments and calculations to be completed so you should have some good basic English and Mathematics skills.

Part of the course will require you to undertake research so you should be able to work independently as well as part of a team. It is important that you can make an active contribution when working in a group.

Course Content

A total of 4 units will be studied across the 2 years of the course which include all 3 sciences:

- Unit 1 Principles and Applications of Science (External examination)
- Unit 2 Practical Scientific Procedures and Techniques (Internal assignments)
- Unit 3 Scientific Investigation Skills (External Task based Assessments)
- Optional Unit (Internal assignments)

The Optional Unit will be a Biology or Chemistry based topic. The content of this will be decided based on students undertaking the course.

Possible units are:

- Physiology of Human Body Systems
- Human Regulation and Reproduction
- Biological Molecules and Metabolic Pathways
- Genetics and Genetic Engineering
- Diseases and Infection
- Applications of Inorganic Chemistry
- Applications of Organic Chemistry

You will be allowed one re-submission of assignments within 15 days of original completion. You can re-sit exams once to improve grades.

How it will be assessed:

Unit 1	Unit 2	Unit 3	Unit 4
External Exam	Lab based assignments	Science Investigation Task	
1.5 hours exam (January or May) 90 Marks (Covers all Biology, Chemistry and Physics topics)	Criteria based assessment Pass/Merit/ Distinction	Written task 60 marks 3 hour practical 1.5 hour evaluation	Criteria based assessment Pass/Merit/ Distinction
Each unit is awarded points and the total points determines the overall grade of Pass, Merit or Distinction			

Progression

This qualification generates UCAS points and can be used to enable access to Higher Education courses in Applied Sciences.

Many students undertaking this course will consider entering science based employment in the NHS, Veterinary Sciences, Paramedics or lab based roles.

Analytical skills developed are also transferrable to many other occupations.

Staff

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