

APPLIED SCIENCE

**QUALIFICATION: BTEC LEVEL 3 NATIONAL EXTENDED CERTIFICATE
(1 A LEVEL)**

The Pearson BTEC Level 3 National Extended Certificate in Applied Science is intended as an Applied General qualification for post-16 learners who want to continue their education through applied learning and who aim to progress to higher education and ultimately to employment, possibly in the applied science sector. The qualification is equivalent in size to one A Level and aims to give a coherent introduction to study of the applied science sector.

ENTRY REQUIREMENTS:

The equivalent of two 4-9 grades at GCSE.

HOW COURSE IS ASSESSED:

A minimum of 4 units need to be completed:

- 1 of the units is examined.
- 1 of the units is a controlled practical assessment that is marked by EDEXCEL.
- 2 of the units are coursework.

WHERE NEXT?

The qualifications prepare learners for a range of higher education courses and job roles related to a particular sector. They provide progression either by meeting entry requirements in their own right or by being accepted alongside other qualifications at the same level and adding value to them.

JOB OPPORTUNITIES:

This qualification will help you find employment as a technician in areas such as pharmacies, hospital laboratories, environmental science laboratories and college laboratories.

COURSE CONTENT:

This course is offered as BTEC Level 3 Extended Certificate.

Unit 1 (externally assessed):

Principles and Applications of Science 1. This unit covers key science concepts in biology, chemistry and physics.

Unit 2 (Coursework):

Practical Scientific Procedures and Technique. Learners will be introduced to quantitative laboratory techniques, calibration, chromatography, calorimetry and laboratory safety which are relevant to the chemical and life science industries.

Unit 3 (controlled investigation):

Science Investigation Skills- A task set and marked by Pearson and completed under supervised conditions.

- The supervised assessment is arranged over two sessions in a three-week period timetabled by Pearson.
- The supervised assessment sessions are 3 hours for Part A and 1.5 hours for Part B.
- Practical investigation and written submission.

Learners will cover the stages involved and the skills needed in planning a scientific investigation: how to record, interpret, draw scientific conclusions and evaluate.

The final unit will be decided from the following list, one unit will be chosen for all learners:

- Physiology of Human Body Systems
- Human Regulation and Reproduction
- Biological Molecules and Metabolism
- Genetics and Genetic Engineering
- Diseases and Infections
- Applications of Inorganic
- Applications of Organic Chemistry
- Electrical Circuits and their Application
- Astronomy and Space Science