

BTEC Level 3 National Extended Diploma in Applied Science– Edexcel

Entry requirements

Grade 4-4 in GCSE Combined Science and Grade 5 in GCSE Maths and English Language.

Course content

This qualification provides learners with the knowledge, understanding and skills that underpin study of the applied science sector, providing the opportunity to focus on different aspects of applied science.

You will study seven mandatory units:

- **Unit 1: Principles and Applications of Science I**
- **Unit 2: Practical Scientific Procedures and Techniques**
- **Unit 3: Science Investigation Skills**
- **Unit 4: Laboratory Techniques and their Application**
- **Unit 5: Principles and Applications of Science II**
- **Unit 6: Investigative Project**
- **Unit 7: Contemporary Issues in Science.**

There is the opportunity to explore, through the optional units below, a particular area of science, to support progression to applied science courses in higher education, and to link with relevant occupational areas. The particular scientific areas covered are:

- **Biomedical Science** – optional units cover topics such as physiology, microbiology, and diseases and infections
- **Analytical and Forensic Science** – optional units cover topics such as chemical analysis, applications of organic chemistry, and forensic evidence collection and analysis
- **Physical Science** – optional units cover topics such as materials science, astronomy and electrical circuits.

Assessment overview

Assessment is specifically designed to fit the purpose and objective of this qualification. It includes a range of assessment types and styles suited to vocational qualifications in the sector. For this qualification, there are three main forms of assessment; external, internal and synoptic.

External-assessed units: Learners will sit written examination papers based on the qualification content, under specified conditions. These are marked by Pearson and a grade awarded.

Internally-assessed units: Most units on this qualification are internally assessed. This means that the school will set and assess assignments, which will be externally moderated by Edexcel.

Synoptic- assessed units: There are formally identified units which contain a synoptic assessment task. These tasks allow learners to apply their knowledge and skills to realistic contexts.

Progression

Applied science qualification provides a range of progression pathways. It supports entry to university degree courses, for example BSc (Hons) in Chemistry with Analytical Science, BSc (Hons) in Forensic Science, BSc (Hons) in Biomedical Sciences, BSc (Hons) in Pharmacy (some university courses may require achievement of specific units) as well as Higher National Diploma (HND) in Applied Science. The course also provides learners with a range of transferrable employability skills including cognitive and problem-solving skills, interpersonal skills and intrapersonal skills.