

# APPLIED SCIENCE

BTEC Level 3  
Extended Certificate

## Why Study This Course?

- You want a future career in Science.
- You want to develop a high level of practical laboratory experience/techniques
- You want to study a range of topics across Biology, Chemistry and Physics.
- You want to enhance your theoretical knowledge.
- You want to develop skills needed for scientific investigation.



## Career Progression

- Scientific careers such as Quality Control Analyst, working in hospitals as a Medical Physics Technician, Research laboratories in the development of new drugs.
- University degrees and Apprenticeships.
- Nursing, Physiotherapy, Nutritional Science, Analytical Science/Lab technician.

## What You'll Study

Over the two-year course you will develop:

- Fundamental scientific principles and applied knowledge relating to biology, chemistry and physics
- Laboratory techniques, including health and safety assessment and associated professional practice
- Problem solving.

Assessment:

Year 12

- Year 12: 2 x 1 hour exams (Biology and Physics)
- Year 12: 3 x 40 minute exams (Biology, Chemistry & Physics)
- 1 hour exam on Biology – Structure and function of cells and tissues, biological molecules, enzymes and their role in organisms.
- 1 hour exam on Physics – Waves and their applications; force principles and their application in transportation and construction of electrical circuits.
- Practical Coursework on Practical applications across the sciences, including chromatography, colorimetry and electrical circuits.

Year 13

- Year 13: Practical exam
- Year 13: Coursework assignments on Physiology of Human Body Systems

1 hour exam on Chemistry – Structure of the Periodic Table and its implications on physical and chemical properties of substances, through analysis of different bonding methods.  
Practical coursework on Investigative research, including planning, data collection, analysis and evaluation.

**Exam Board: EDEXCEL**