

# BTEC National Extended Certificate in Applied Science

## (Equivalent to one A Level)

### Course Description:

If you enjoy Science and would like to continue your studies without specialising in one particular area of Science then this is a very good course for you. Being a vocational course, it also involves developing more practical employable skills such as communication, organisation, independent working and time management.

The Level 3 BTEC Extended Certificate in Applied Science is a two year course and is equivalent to one A level in Applied Science. This qualification is also referred to as a BTEC National and carries the same UCAS points for university as an A Level qualification.

### Qualifications Required:

Minimum entry requirements apply. In addition we also require minimum of two Grade 5's in GCSE Science.

### Aims of the Course:

- to develop a range of skills and techniques, personal skills and attributes essential for successful performance in working life
- to increase understanding of the role of the science technician or assistant practitioner, their relationship with the scientific community and their responsibilities towards the community and the environment
- to acquire technical and employability skills, knowledge and understanding which are transferable and will enable individuals to meet changing circumstances

### Future Prospects:

The Level 3 BTEC Extended Certificate in Applied Science is equivalent to one A Level and alongside other A Levels will enable you to progress into higher education. With the international recognition of BTEC courses such as this, you can also progress straight into employment or training. If successful there are a wide variety of science related careers that you can explore, for example: medical laboratory assistant, chemical plant process worker, chemist or laboratory technician.

### Student Feedback:

'A good combination between research work and discussion sessions.'

'I like the mix between doing practical's and written-based work.'

'The trip to Colmworth Science Park was an excellent opportunity to see a working Science laboratory.'

'The teachers are supportive and helpful.'

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### Features of the Course:

- Fundamentals of Science
- Scientific Practical Techniques
- Science investigation Skills
- The Physiology of Human Body Systems

### Year 12 Units

#### Unit 1: Fundamentals of Science

Atomic structure  
Bonding  
Periodic table  
Cell structure  
Tissues  
Waves

#### Unit 2: Scientific Practical Techniques

Titration  
Colorimetry  
Cooling Curves  
Chromatography  
Personal Skills

### Year 13 Units

#### Unit 3: Science Investigation Skills

A task will be set by the exam board and completed in lessons to collect data  
A series of questions about the task and relating science are completed in lessons and then sent to the exam board

#### Unit 8: The Physiology of Human Body Systems

Musculoskeletal System  
Lymphatic System  
Digestive system

### Methods of Assessment:

- 25% of the whole course is externally assessed by an exam (unit 1)
- 37.5% of the whole course assessed internally by your teachers through the written portfolio of work you produce (units 2 and 8)
- 37.5% of the whole course is externally assessed based on practical tasks set by set by the exam board and carried out and analysed in lessons (unit 3)