

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 5s 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 practicals and written-based work.'

'The trip to Colworth 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)