

Why study BTEC Applied Science?

Everything around us involves Science. The world and technology is changing everyday, studying Applied Science allows you to understand and appreciate these technological advances. If you love Science and want to continue to study all the three Sciences: Biology, Chemistry and Physics, or you want a career that involves some aspects of Science, then BTEC Applied Science is the course for you.

This vocational qualification offers learners a practical and vocational qualification.

The Extended Certificate (equivalent one A Level) consists of one written exam, two coursework units and an externally marked practical task.

The Diploma (equivalent to two A Levels) consists of the same units as the Extended Certificate plus an additional three coursework units and an additional written exam.

What new skills will I learn?

BTEC Applied Science aims to:

- give you practical experience from real world assignments;
- make you take responsibility for you own learning;
- develop interpersonal and practical thinking skills;
- give you a strong core base of scientific knowledge in Biology, Chemistry and Physics;
- make you set deadlines and learn how to defiantly manage time to complete tasks.

Career routes with

Applied Science?

Whether you choose Applied Science because you enjoy Science or simply because it will support your other subjects, we feel it will be a benefit to you.

Studying Applied Science will support your learning in a range of subjects and involves the development of lots of transferrable skills.

Applied Science can lead you into many career paths and onto many different degree courses such as jobs in the healthcare sector or sports science.

**Health and Social Care, PE, Business Studies,
Design and Technology, ICT and Geography
all work well with A Level Applied Science.**

Course Outline

For the Single Award (Extended Certificate) you will study four units:

Principles and Applications of Science I. (Written exams)

The exams will include a range of question types including multiple choice, calculation, short answer and open response.

Practical Scientific Procedures and Techniques. (Assignment set and marked internally).

Students will be introduced to quantitative laboratory techniques, calibration, chromatography, calorimetry and laboratory safety, which are relevant to the chemical and life science industries.

Science Investigative skills. (Task set and marked by the exam board).

Students are set a two-part task, where they have to complete an experiment under timed conditions, and then complete a written task based on their findings. The task aims to test the student's ability to plan, record, process, analyse and evaluate scientific findings.

Physiology of Human Body Systems. (Option coursework unit).

Students complete a range of tasks where they explore the workings of the human body and the medical conditions that affect it.

For the Double Award (Diploma) - all of the above units plus:

Unit 6 - Investigative Project. (90 GLH, Mandatory Synoptic)

This is an internally assessed assignment where students are required to carry out a literature review. The aim of this is for them to plan an investigative project, undertake the project and then collect, analyse and present the results

Unit 5- Principles and Applications of Science II. (Written exam)

The exams will include a range of question types including multiple choice, calculation, short answer and open response.

Unit 4 - Laboratory Techniques and their Application. (Internally assessed)

Students are required to complete a series of assignments. These include: Understanding the importance of health and safety in scientific organisations, manufacturing techniques and testing methods for an organic liquid and solids.

Unit 21 - Medical Physics Applications

Students are introduced to a range of medical Physics techniques focussing on imaging, using ionising and non-ionising radiation. Student then look to compare techniques, exploring benefits and drawbacks of the different techniques.

Lead Teacher: Mr P Lee

Exam Board: EDEXCEL

Sixth Form Entry Requirements:

Students must have a minimum of at least five GCSEs at grades 4 - 9.

These must include English Language and at least four other subjects.

Additional requirements:

GCSE grade 4 or above in two of Biology, Chemistry or Physics, or GCSE grade 5 / 4 or above in Combined Science.

GCSE Grade 4 or above in Mathematics.

Assessment:

Extended Certificate:

There are three exams, Biology, Chemistry and Physics, each lasting 40 minutes for a total of 90 marks.

Two assignments set and marked internally.

One controlled assessment.

Diploma:

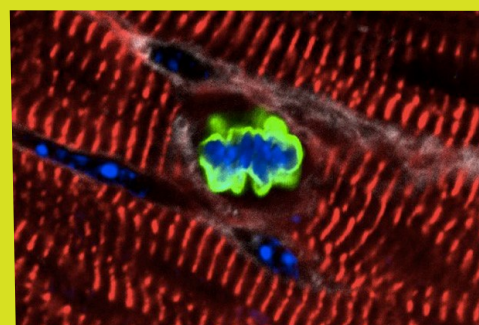
Additionally, there are three 50-minute exams (Biology, Chemistry and Physics) worth a total of 120 marks.

Three coursework assignments.

Find out more ... visit our website www.bbs.calderdale.sch.uk

Here to help ... speak to the course tutor or your form tutor

Call us on 01422 328928. Email admin@bbs.calderdale.sch.uk



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