



# BTEC SCIENCE

# BTEC Course Information



**Qualification:** BTEC Level 3 Extended Diploma in Applied Science

**Exam Board:** Pearson

**Subject Leader:** Dr C. Meadows

## Entry Requirements:

**Minimum Entry Requirements:**

5 x 4s

4 in English and Maths

**Subject Specific Entry Requirements:**

4 in Biology, Chemistry & Physics at GCSE

or 4,4 in Double Science GCSE

## Why study BTEC Science?

If you are interested in sciences and its applications in the real world then BTEC applied science is ideal. This course is most suited to those students who understand scientific concepts but may not be able to demonstrate this fully in examinations. It is a course that builds confidence in knowledge and develops the techniques required to become excellent science practitioners.

The importance of the transferable skills, such as collaborative learning, written skills and presentation skills, cannot be emphasised enough for all those hoping to continue to study post sixteen at university or hoping to go directly into employment.

## What can I do with BTEC Science after Sixth Form?

A BTEC National Level 3 in Applied Science will provide a broad-based science education in combination with transferrable skills which would lead into higher education or science-based careers.

The extended diploma course carries UCAS points equivalent to 3 A-levels and is accepted by over 95% of universities.

## BTEC Science Extras

Working in a science based organisation requires a unique set of enquiry and technical skills and the BTEC National Level 3 qualification offers a perfect opportunity to prepare students for a career in science.

## What will I study?

The subject content for Level 3 BTEC in applied science is divided into externally assessed and internally assessed units.

### Externally assessed units

#### Unit 1 Principles and Applications of Science I (90 Guided Learning Hours)

This unit includes many fundamental elements of Biology, Chemistry and Physics. It is assessed by a 1.5 hour written paper, taken in year 12, worth 90 marks.

#### Unit 3 Science Investigation Skills (120 Guided Learning Hours)

This unit prepares learners for the world of practical science, planning, carrying out and evaluating experiments. Assessment is 2 supervised sessions in a three-week period, 3 hours for the practical part A and 1.5 hours for a Part B which is a written paper. Submission of investigation notes and written paper, in year 12, worth 60 marks

#### Unit 5 Principles and Applications of Science II (120 Guided Learning Hours)

Additional fundamentals of Biology, Chemistry and Physics are covered in this unit. Assessment is in the form of a two hour paper, worth 120 marks.

#### Unit 7 Contemporary Issues in Science (120 Guided Learning Hours)

Two weeks prior to a supervised assessment of 2.5 hours, information on a topical issue will be provided and supervised research time is provided. The written paper is worth 50 marks.

### Internally assessed units

The internally assessed units are divided into compulsory and optional units. These are task based assessments from authorised assignments set by the exam board.

#### Compulsory units

**Unit 2 Practical Scientific Procedures and Techniques** 4 Assignments (90 Guided Learning Hours)

**Unit 4 Laboratory Techniques and their Application** 4 Assignments (90 Guided Learning Hours)

**Unit 6 Investigative Project 3 Assignments** (90 Guided Learning Hours)

#### Optional units

Six units (60 Guided Learning Hours each) will include a range of biology, chemistry and physics units which will be matched to A level content and practical skills.