



# Applied Science

**ACADEMIC  
& APPLIED**

**Level 3 BTEC Specialist Vocational  
Certificate - Single Award  
Extended Certificate - Double Award**

*Course Leader: Mr S Matic-Booth*

## **Entry requirements**

- Grade 5 Science GCSE
- Grade 4 GCSE English and Maths
- The ability to follow scientific procedures and handle chemicals safely and neatly
- The ability to work independently and meet deadlines
- An interest in the world around you

## **Why choose this course?**

This course provides an excellent foundation for anyone wishing to pursue a science or health care career. It is also aimed at students with a love of science who want to continue their scientific studies.

The double award course provides equivalent UCAS points to an A level.

The requirements of the qualification will mean that learners develop the transferable and higher order skills which are valued by higher education providers and employers. Learners will develop skills including how to plan investigations, collecting, analysing, and presenting data and communicating results which support some of the skills learners need to progress to higher education, employment, self-employment or training.

You will begin by studying principals and applications of science and lab skills before focussing on more specialist units in the second half of the course.

Single award grade is weighted 50% exam and 50% coursework.

Double award consists of a controlled assessment weighted as 58% and 42% coursework based.

## **Web Links**

For more information talk to your Work Related Learning Co-ordinator or visit [www.plymouthlearningtrust.org](http://www.plymouthlearningtrust.org)

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**What does the course involve?****Certificate Level 3**

Throughout the course you will develop a wide range of practical and technical skills, knowledge and understanding, and personal employment based skills.

**Unit 1 Principles and Applications of Science I**

Periodicity and properties of elements, structure and functions of cells and tissues and waves in communication.

**Unit 2 Practical Scientific Procedures and techniques**

Titration and colorimetry, use chromatographic techniques to identify components in mixtures and personal development of scientific skills for laboratory work.

**Extended Certificate Level 3****Unit 3 Science Investigation Skills**

Planning a scientific investigation, data collection, processing and analysis and drawing conclusions and evaluation. Subject content will consist of enzymes in action, diffusion of molecules, plants and their environment and energy content in fuels.

**Unit 8 Physiology of Human Body Systems**

The impact of disorders of the musculoskeletal system and their associated corrective treatments.

Disorders of the lymphatic system and digestive system including the associated corrective treatment.

**Possible career pathway**

The course is specifically designed as a work-related course, providing the knowledge and understanding and skills necessary to prepare students for a wide variety of medical, healthcare and science based careers, in addition to routes into Higher Education. Former pupils have proceeded onto a variety of higher education courses such as forensic science, psychiatric nursing, midwifery and paramedic science.