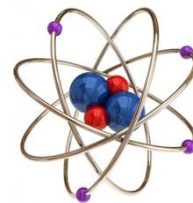




# LEVEL 3 CERTIFICATE IN APPLIED SCIENCE

AQA codes: TVQ01028/TVQ01029 contact: Alexandra Huntley



## IS THIS THE RIGHT SUBJECT FOR ME?

This course is supported by a range of universities, and taken alongside other qualifications it can fulfil the entry requirements for a number of science-related higher education courses, including biomedical, forensic and sports science, as well as nursing. This course provides students with a broad understanding of vocationally-related sciences to support progress to higher education by teaching the fundamental scientific skills valued by universities and employers. The course has the added benefit of combining a mixture of internal and external assessment, meaning learners can apply their knowledge in a practical way and that it is not all completely assessed by examination only

## YEAR 12 LEVEL 3 CERTIFICATE

### KEY CONCEPTS IN SCIENCE

This unit covers Biology, Chemistry and Physics. You will study the smallest unit of life, the structure of organs and the functioning of the human body. You will have the opportunity to carry out work to investigate the concentration of acids and alkalis and energy released from chemical reactions. You will also study the fundamental aspects of Physics including forces, electricity and energy.

### APPLIED EXPERIMENTAL TECHNIQUES

This module explores the work of an analytical scientist. You will carry out a series of practical investigations in Biology, Chemistry and Physics to solve problems and present your findings in a portfolio.

### SCIENCE IN THE MODERN WORLD

This unit investigates current scientific issues, considering the social implications of scientific advancements. You will develop critical thinking skills through analysing information from scientific texts as well as exploring how scientists work and the varied roles they carry out.

## YEAR 13 LEVEL 3 EXTENDED CERTIFICATE

### THE HUMAN BODY

This is a Biology unit which considers the health and fitness measurements used to monitor the activity of the body, the workings of the digestive system and the structure and function of the brain and nervous system. These concepts will be studied in vocational contexts such as the work of sports scientists, nurses and dieticians.

### INVESTIGATING SCIENCE

In this module you will draw on the knowledge and skills you have learned in the other units to research and carry out your own investigation then report your finding to suitable audience.

### MEDICAL PHYSICS

This unit is designed to give students an understanding of some of the key areas in modern medical physics. It will allow them to look at the scientific basis for modern diagnostic and therapeutic techniques and evaluate the advantages and disadvantages of a range of methods of diagnosing and/or treating different conditions.

## SKILLS YOU WILL DEVELOP

You will develop a broad understanding of how Science is Applied to everyday life and practical skills relevant to a career in Science. You will be able to work independently or as part of a team to carry out research and learn about the role of science in business and industry, as well as developing the communication skills required to present scientific findings.

## HOW IT IS ASSESSED

LEVEL 3 CERTIFICATE IN APPLIED SCIENCE	Unit 1 Key concepts in science	33.3% of Certificate  16.6% of Extended Certificate	Written Exam 1 hour 30 mins  60 marks
	Unit 2 Applied experimental techniques	33.3% of Certificate  16.6% of Extended Certificate	Coursework
	Unit 3 Science in the modern world	33.3% of Certificate  16.6% of Extended Certificate	Written Exam 1 hour 30 mins  60 marks
LEVEL 3 EXTENDED CERTIFICATE IN APPLIED SCIENCE	Unit 4 The Human Body	16.6% of Extended Certificate	Written Exam 1 hour 30 mins  60 marks
	Unit 5 Investigating Science	16.6% of Extended Certificate	Coursework
	Unit 6b Medical Physics	16.6% of Extended Certificate	Coursework

## ENTRY REQUIREMENTS

Minimum of grades of 5+4 in Double Award Science  
and a grade 4 in Maths and English Language or Literature

