

BTEC

# APPLIED SCIENCE

## Course Overview

The BTEC structure has changed now and there is a requirement for students to complete a mixture of internally assessed assignments and externally assessed examinations. The aim of the course is to allow students to develop their interest in and enthusiasm for Biology and Chemistry.

Students on the course will be able to appreciate how society makes decisions about scientific issues and how the sciences contribute to the success of the economy and society. Students will work through practical exercises and the study of past key experiments, to develop and demonstrate a deeper appreciation of the skills, knowledge and understanding of how science works.

## Course Activities

Course books are available and students are encouraged to read these in their own time and also to keep up to date with scientific developments in the news. Students will complete a range of activities throughout the course, including written assignments, podcasts, posters, external examinations and of course lots of practical work. Applied Science is a good subject to study alongside: Psychology, Health & Social Care and Sociology.

## Components of Course

**Unit 01:** Principle & Application of Science

**Unit 02:** Practical Scientific Techniques

To complete the award, we will be selecting from the Optional units. Two Optional units are needed for the Diploma. The Optional units will likely be units such as these:

**Unit 03:** Scientific Investigation Skills

**Unit 04:** Laboratory Techniques and their Application in Industry

**Unit 05:** Principle & Application of Science 2

**Unit 06:** Vocational Research Project

**Unit 08:** Physiology of Human Body Systems

**Unit 09:** Human Regulation and Reproduction

**Unit 10:** Biological Molecules and Metabolic Pathways

**Unit 11:** Genetics and Genetic Engineering

**Unit 12:** Diseases and Infections

## Teaching Methods

Teaching methods vary depending on the topic but students are always encouraged to be hands-on and independent in their learning. Pre-reading of a topic at home is the starting point then in-class activities focus on discussion, understanding theory and practical work.

## Course Outline

A range of assessments will take place including examinations and the completion of coursework in the form of set assignments.

## Exam Board

Edexcel.

## Entry Requirements

A minimum of five GCSEs at grade 4 including GCSE Maths, GCSE English and Double Award Science.

Desired G-Score of 5.0 or above.

## Student Testimonial



*“Applied Science has been very enjoyable to learn over the past year as the units I have done have been interesting and fun to learn. The teachers are very good and supportive in every way throughout the course, helping me achieve my end goal”*

**Leila Hussai**

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