BTEC National Extended Certificate in Applied Science

2024-25

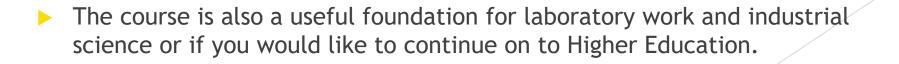
What is Applied Science?

- > An Extended Certificate.
- Equivalent to one full A-Level.
- Exam board: Pearson
- D* 56 UCAS Points
- D 48 UCAS Points
- M 32 UCAS Points
- P 16 UCAS Points



What Careers Can Applied Science Lead Into?

- Forensic Science
- Biomedical Science
- Microbiology
- Nursing
- Midwifery
- Paramedic Science
- Pharmaceutical Science
- Radiography
- Engineering







Why Should I study Applied Science?

- Study all three Sciences rather than specialising in one good if you want to progress to a career that requires a good knowledge of multiple Sciences, or if you are interested in multiple Sciences but don't want to take three Science A-Levels.
- Study Sciences from a practical perspective not just learning theory but testing ideas out in practical work and reporting on it.
- Build up your grade through a combination of coursework and examination throughout the course - don't wait to be examined at the end of Year 13 but earn your grade more gradually, helping you to be more in control of your own success.



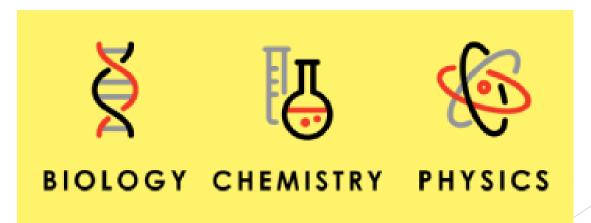
How Will I be Assessed in Applied Science?

- Unit 1 Examination. 25% of your overall grade.
- Unit 2 Coursework. 25% of your overall grade.
- Unit 3 Examination. 33% of your overall grade.
- Unit 12 Coursework. 17% of your overall grade.



Unit 1 - Principles & Applications of Science

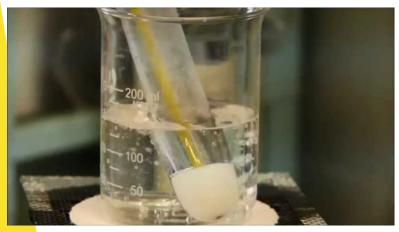
- Chemistry Structure and bonding in applications of Science, Production and uses of substances in relation to properties.
- Biology Cell structure and function, Cell specialization, Tissue structure and function.
- Physics Working with waves, Waves in Communication, Use of electromagnetic waves in communication.



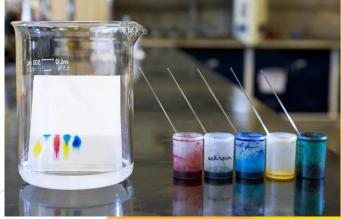


Unit 2 - Practical Scientific Procedures and Techniques

- Assignment 1 Undertake titration and colorimetry to determine the concentration of solutions.
- Assignment 2 Undertake calorimetry to study cooling curves.
- Assignment 3 Undertake chromatographic techniques to identify components in mixtures.
- Assignment 4 Review personal development of scientific skills for laboratory work.



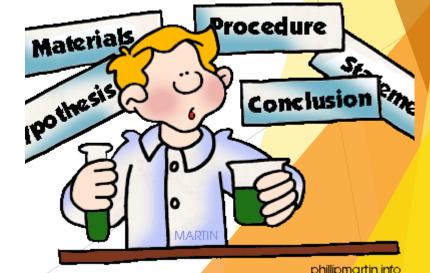






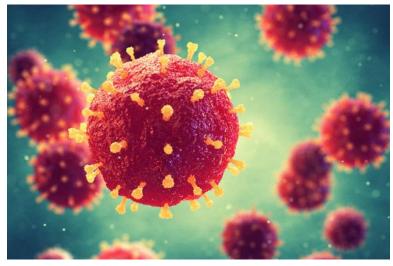
Unit 3 - Science Investigation Skills

- Planning a Scientific Investigation.
- Data Collection, processing and analysis/ interpretation.
- Drawing conclusions and evaluation.
- Biology Enzymes in action, Diffusion of molecules, Plants and their environment.
- Chemistry Energy content of fuels.
- Physics Electrical circuits.



Unit 12 - Diseases and Infection

- Assignment 1 Investigate different types of diseases and infections that can affect humans.
- Assignment 2 Examine the transmission of infectious diseases and how this can be prevented.
- Assignment 3 Understand how infectious diseases can be treated and managed.
- Assignment 4 Understand how the human body responds to diseases and infections.





2023 Results

100% pass rate (3 students) All students achieved merits

2024 Results

100% pass rate (9 Students)3 Distinctions

- 5 Merits
- 1 Pass



What are the Entry Requirements for Applied Science?

- **Course entry requirements:**
- 5,5 in Combined Sciences
- A minimum of a grade 4 in English and Mathematics

