Applied science

Exam board and specification: Pearson Edexcel AAQ

What you need to study this course: Grade 55 in GCSE Combined Science or grade 5 in biology, Chemistry and Physics separate science

Why you should consider this course

If you are someone who enjoys biology, chemistry and physics and wants to still study all three then Applied Science is for you. The course is split into a mixture of exam units and coursework units, with a huge emphasis on practical work which develops strong research skills through project-based assessment.

AAQ grades are reported as: Distinction* = A* A-Level equivalent, Distinction = A, Merit = C, Pass = E

What you will study

Year 12: Unit 1 Biology – Structure and function of cells and tissues, biological molecules, enzymes and their role in organisms. Unit 2 Chemistry – Structure of the periodic table and its implications on physical and chemical properties of substances, through analysis of different bonding methods. Unit 3 Physics – Waves and their applications, force principles and their application in transportation and construction of electrical circuits

Year 13: Unit 4 Practical scientific procedures and techniques – chromatography, colorimetry and electrical circuits

Unit 6 Contemporary issues in science – including the reliability of sources of scientific information and their associated validity

How you will be assessed:

Exam Papers (50% of grade):

Paper 1: Principles and Applications of Biology – 50 marks

Paper 2: Principles and Applications of Chemistry – 50 marks

Paper 3: Principles and Applications of Physics – 50 marks

Coursework (50% of grade):

Assessed internally and completed in both lesson time and as home learning.

Unit 4 -Practical scientific procedures and techniques - 25% of grade

Unit 6 – Contemporary issues in science 25% of grade

Where can it take you?

The top 5-degree courses taken by students who have the qualification are …

Studying Applied Science gives you all sorts of exciting career options, including:

- Civil engineering
- Radiography
- Nursing
- Forensic science
- Software engineering
- Physiotherapy
- Environmental science

Applied Science Alumni Destinations:

St George's London – Diagnostic Radiography

University of Roehampton – Software Engineering

Kingston University – Civil Engineering

University of Greenwich – Forensic science

University of Surrey – Criminology

St Mary's University – Psychology