

Subject: Biology, Chemistry & Physics (Triple)

Qualification: GCSE

Exam Board: AQA

**Specification Code: 8461,
8462, 8463**



Who is the course for?



Triple Science students study Science in Years 10 and 11 for 12 periods a fortnight as part of a broad and balanced curriculum. Students will:

- Develop an understanding of the nature, processes and methods of science, through different types of scientific enquiries that help answer scientific questions about the world around them.
- Develop and learn to apply observational, practical, modelling, enquiry and problem-solving skills, both in the laboratory, in the field and in other learning environments.
- Develop their ability to evaluate claims based on science through critical analysis of the methodology, evidence and conclusions, both qualitatively and quantitatively.

What will I learn?

Biology topics: Cell Biology; Organisation; Infection and response; Bioenergetics; Homeostasis and response; Inheritance, variation and evolution; Ecology

Chemistry topics: Atomic structure and the periodic table; bonding, structure, and the properties of matter; Quantitative chemistry; Chemical changes; Energy changes. The rate and extent of chemical change; Organic chemistry; Chemical analysis; Chemistry of the atmosphere; and using resources.

Physics topics: Energy; Electricity; Particle model of matter; and Atomic structure. Forces; Waves; and Magnetism and electromagnetism.

STEM (Science, Technology, Engineering & Mathematics) Enrichment Activities (one hour per week):

To consolidate learning across STEM and develop independent learning skills and teamwork. Students will carry out group projects, lead investigations/experiments for the school's Science Fair and enter competitions such as the Big Bang held at the NEC in Birmingham. Winners from this school at the Big Bang Fair this year had worked on incorporating a proximity detector into headgear for the visually impaired and investigating the use of a magnetohydrodynamic drive to power boats.

How will I be assessed?



6 Exam papers - 2 Biology, 2 Chemistry, 2 Physics each worth 50% of the specific subject GCSE.

Papers consist of structured short answer questions and extended response questions.

28 required practicals must be completed and the exam papers will feature questions which relate to these.

Tiers of Entry - Foundation (Grades 5-1) and Higher (Grades 9-5)

It should be noted that the requirement for taking A Level Sciences is a minimum of two Science Grade 6's at GCSE (one in the subject you want to study) and Grade 6 in both English and Maths. You will require a minimum of Grade 7 in Maths GCSE to study A level Physics.

How can I progress with this qualification?

QEGS

GCSE
Biology, Chemistry, Physics
(Triple Award)



QEGS Sixth Form

A Level Biology, Chemistry & Physics

Or Sixth Form College

Level 3 BTEC Applied Science



The future

University, College, Medicine,
Veterinary Science, Nursing,
Laboratory Technician, Teaching,
Dentistry, Dental Technician
Engineering, Pharmacy, Teaching,
Banking plus many more