

Content

Our Triple Science Option course builds on the combined science pathway which all students follow. Students will learn additional and more demanding content in Biology, Chemistry and Physics.

Additional content in each area includes (but is not limited to!):

Biology: Microbiology, plant diseases, the uses of antibodies, the brain, the eye, the kidney, hormonal control in plants, understanding genetics and numerical analysis of ecosystems.

Chemistry: Transition metals, nanoparticles, increasing yield in chemical industries, titrations, how batteries work, organic compounds and more detailed chemical analysis.

Physics: Static electricity, investigating gas pressure, uses of radioactive materials, nuclear fission and fusion, moments (levers and gears), lenses and space physics.

Students will gain essential practical skills with embedded core practicals.

Assessment

- 100% examination to earn 3 GCSEs (Biology, Chemistry and Physics)
- 2 Papers per GCSE (6 exams in total)
- Each exam paper is 1 hour 45 minutes

Facilities and Equipment used

- The facilities and equipment are the same as those used for combined science, although select pieces of more sophisticated equipment will be used for some topics.

Outside Learning Opportunities

- Visits to science conferences
- Workshops with local universities

Related Careers

Careers related to this course are medical careers, chemist, microbiologist, marine biologist, pharmacist, geologist, petrochemical analyst, nuclear physicist, electrical engineering, physiotherapist, psychology and many more.

Students wishing to go on to study sciences at A-level or beyond are advised to take this option.

Entry requirements

Students will need to have a good understanding of Science at Ks3, demonstrated by good performance in assessments.

This course is suitable for students in Science Sets 1 and 2.

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