

“There is no such thing as a special category of science called applied science; there is science and its applications, which are related to one another as the fruit is related to the tree that has borne it.” *Louis Pasteur*

Overview

You will develop an understanding of key concepts relating to Biology, Chemistry and Physics. Through a range of experimental techniques you will continue to develop your practical skills, develop critical thinking skills and understand how to communicate scientific ideas and theories.

The course will provide you with opportunities to explore some of the diverse occupations available in science such as those relating to the human body, the role of the research scientist and microbiologists in the biotechnology industries.

Year 12

You will study the following units:

- Unit 1:** Key concepts in science
- Unit 2:** Applied experimental techniques
- Unit 3:** Science in the modern world

Year 13

You will study the following units:

- Unit 4:** The human body
- Unit 5:** Investigating science
- Unit 6a:** Microbiology

Assessment method

You will sit two written exams in Year 12. One on Biology, Chemistry and Physics theory, the second will be pre-release material on science in the modern world. You will sit one exam in Year 13.

You will also undertake and submit coursework which will contribute towards your final results.

Additional information

In addition to homework you will also be expected to carry out a minimum of 5 hours independent study per fortnight in each subject studied. During independent study periods you will be expected to carry out coursework assignments, prepare formal exam homework cards and exam style question papers.

All specialist textbooks, scientific papers and publications will be made available. You will need to have a scientific calculator and an internet enabled device such as a laptop or notebook.

A range of trips are available throughout the course including Kew Gardens and Bristol University. A contribution towards the cost of travel will be required.

Entry requirements

Five GCSE Grade 4 to 9 including English and Maths. Students require a GCSE Grade 4 or above in Science.

For more information contact

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Futures

Nursing, laboratory work, forensic analysis, primary teaching, sport.

Exam board

