

APPLIED SCIENCE

HEAD OF DEPARTMENT

Mr A Hoyle
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TYPE OF QUALIFICATION

BTEC Extended Certificate

EXAM BOARD

Pearson

SPECIFICATION

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ENTRY REQUIREMENTS

Preferred: Grades 4+ in either Combined Science or two of the separate Sciences.

Essential: Grades 3+ in either Combined Science or two of the separate Sciences.



SUBJECT ENRICHMENT



Something to think about...

What does it mean to be alive? How can we manipulate combinations of atoms to serve human purposes? How can use of waves enhance our communication further?



Something to listen to...

60s Science podcast <https://www.scientificamerican.com/podcast/60-second-science/>

The Science vs podcast <https://gimletmedia.com/shows/science-vs>



Something to read...

The Language of Kindness – A Nurses Story by Christie Watson

The Body – A guide for occupants by Bill Bryson

The Disappearing spoon by Sam Kean

The Immortal Life of Henrietta Lacks by Rebecca Skloot

AIMS OF THE COURSE

The aims of this course are to:

- To encourage candidates to develop their interest and an enthusiasm for all three Science disciplines but at the same time gaining an appreciation of the cross overs between traditional Biology, Chemistry and Physics.
- This course will prepare students to go on to study Science further, at University level. Equally, students will progress onto employment or apprenticeships having developed a portfolio of transferable skills, such as time management, cognitive and problem solving skills along with both intrapersonal and interpersonal skills.
- By the end of the course, students will have improved their ability to read scientific and technical texts, effectively communicate through writing, analyse data sets and develop a host of practical skills.

COURSE OUTLINE & ASSESSMENT

Students will study three mandatory units:

Unit 1: Principles and Applications of Science (assessed externally)

Unit 2: Practical Scientific Procedures and Techniques (assessed internally)

Unit 3: Science Investigation Skills (assessed externally)

Students will also study one optional unit of work (assessed internally).

This unit could be centred on Human Physiology, Genetics, Infection and disease or other. For internally assessed units, students are required to produce a portfolio of work relating to that unit.

For externally assessed units, students will sit a national exam.

CAREER PROSPECTS

University courses such as Sports Science, Forensic Science, Engineering, Ecology, Mechanics, Social Care, Physiotherapy, Paediatrics or Chemical analysis. Students may also progress onto apprenticeships offered by local or national employers.

