



APPLIED SCIENCE

THIS COURSE EXPLORES THE APPLICATION OF SCIENTIFIC KNOWLEDGE TO PHYSICAL ENVIRONMENTS, AND CAN BE RELATED TO A NUMBER OF DIFFERENT INDUSTRIES. YOU WILL BUILD ON YOUR KNOWLEDGE OF BIOLOGY, CHEMISTRY, AND PHYSICS, AND EXPAND YOUR KNOWLEDGE OF SCIENTIFIC PROCEDURES AND TECHNIQUES. FURTHERMORE, YOU WILL DEVELOP A GOOD UNDERSTANDING OF HOW TO PERFORM EXPERIMENTS, ANALYSE DATA, AND DRAW CONCLUSIONS.

TOPICS YOU'LL COVER

YEAR ONE

- Analytical chemistry
- Basic chemical reactions
- Cell structure and function
- Waves.

YEAR TWO

- Scientific investigation skills
- The musculoskeletal system
- The lymphatic system
- The digestive system.

ASSESSMENT

EXAMS

PAPER 1: Biology, Chemistry and Physics, at the end of the first year.

PAPER 2: Scientific investigations, in the second year.

COURSEWORK

There are also two internally assessed coursework units, one on analytical techniques the other on human physiology.

ENTRY REQUIREMENTS

At least five GCSEs at grade 4 or above, including English Language, Maths and a science.

PROGRESSION POSSIBILITIES

CAREERS: A wide range of different careers are available as the subject covers all three sciences. Most suitable for students wishing to go into healthcare, physiotherapy or sports science.

UNIVERSITY STUDY: Nursing, physiotherapy or other healthcare related subjects.

SKILLS DEVELOPED

You will develop a wide range of skills including the ability to:

- Think analytically
- Plan and carry out investigations.
- Identify and explain the key systems of the body.

ENRICHMENT OPPORTUNITIES

Science Careers networking event.

QUALIFICATION

BTEC EXTENDED CERTIFICATE

LEVEL

LEVEL 3

CURRENT EXAM BOARD

PEARSON

CURIOUS ABOUT... APPLIED SCIENCE?



Read 'Why Can't Elephants Jump?: And 113 Other Tantalising Science Questions' by New Scientist. and 'Fun Science: A Guide to Life, the Universe and Why Science Is So Awesome' by Charlie McDonnell



Listen to - Big Picture Science podcast

Disclaimer: Information in this course leaflet is for September 2021 entry and is accurate at time of printing. All information provided is subject to change and may be updated during the academic year. Courses offered by the College are subject to change and are reviewed on an annual basis.