



Year 12 Applied Science



AUTUMN TERM

Unit 2 Coursework:

Biology- Chromatography of plant pigments and amino acids

Chemistry- Titrations and colorimetry to determine concentration

Physics- Cooling curves

SPRING TERM

Unit 1 Exam Content:

Biology- Cell and tissue structures and functions

Chemistry- Electronic structure and bonding

Physics- Waves and their applications

SUMMER TERM

Unit 3 Exam Content:

Skill development - Building confidence through consolidation of skills, development of problem solving and synoptic thinking.

YEAR 12 CURRICULUM OVERVIEW

Students study all three sciences, developing an understanding of different practical techniques and their uses in scientific industries and formulating a series of practical reports to analyse and evaluate their own skill development. They also study topics building upon their learning at GCSE to deepen their understanding of scientific ideas and their applications to real-world contexts in the fields of medicine, technology and engineering.



Year 13 Applied Science



AUTUMN TERM

Unit 3 Exam Content:

Scientific skills and investigations:

- Plant distribution
- Enzymes
- Diffusion
- Energy of fuels
- Electrical circuits

SPRING TERM

Unit 12 Coursework:

Investigate different types of diseases and infections that can affect humans.

Examine the transmission of infectious diseases and how this can be prevented.

Understand how infectious diseases can be treated and managed.

Understand how the human body responds to diseases and infections.

SUMMER TERM

Resit opportunity

YEAR 13 CURRICULUM OVERVIEW

Students build upon their learning of scientific processes to consider the procedural implementation of investigations from beginning to end. They develop their data manipulation skills, allowing them to conduct and interpret statistical analyses with an application to real-world contexts. They also develop their independent research skills to produce a series of reports on human disease, allowing them to choose topics of their own interest to analyse and evaluate at depth.