



Curriculum Overview Year 10

Year 10 GCSE Chemistry Course.

The GCSE Chemistry course is designed to give pupils the opportunities to develop their interest in and their enthusiasm for chemistry. Pupils are encouraged to develop a critical approach to scientific evidence and methods. There are many opportunities to carry out practical activities to enhance investigative skills. Pupils acquire and apply skills, knowledge and understanding of how science works and its essential role in society. Pupils need to carry out practical investigations which will be assessed on the examinations. The examinations are taken at the end of the course. The topics studied include: Atomic structure and the periodic table, Particles, Elements, compounds and mixtures, Chemical reactions, Predicting and identifying reactions and products, and Chemistry practical skills.

Year 10 GCSE Biology Course.

The biology course is designed in such a way as to allow pupils to appreciate the natural world around them and make observations of natural phenomena. It aims to develop understanding of the nature, processes and methods of science, through different types of scientific enquiries that encourages active learning through practical work for students to gain scientific knowledge, understanding and skills. The course identifies links to scientific ideas and their implications for society and helps pupils develop a critical approach to scientific evidence and methods. Whilst studying the course, pupils are expected to do practical investigations and learners will be assessed on these skills on the examinations. Topics studied include cell biology, microscopy, transport in cells, plant organ systems and some human biology.

Year 10 GCSE Physics Course.

The GCSE Physics course is designed to give pupils the opportunities to develop their interest in and their enthusiasm for physics. Pupils are encouraged to develop a critical approach to scientific evidence and methods. There are many opportunities to carry out practical activities to enhance physics investigative skills. Pupils acquire and apply skills, knowledge and understanding of how science works and its essential role in society. Pupils need to carry out practical investigations which will be assessed on the examinations. The examinations are taken at the end of the course. The topics studied include: particle model of matter, energy, electricity, atomic structure, and Physics practical skills.

Year 10 GCSE Combined Science Course.

The Combined Science course is designed to explore scientific principles and introduce the relevance of science through practical application. Pupils engage with the course by making sense of the science they come across in everyday life. It provides opportunities to develop scientific explanations and theories as well as to develop a critical approach to scientific evidence and methods. The development of practical skills is a fundamental and integral aspect of the study. Pupils are expected to carry out practical activities which will be assessed on the examinations. Some of the units study in the course include: Cell biology, microscopy, organ systems, transport in cells, and biology practical skills, The atomic structure and the periodic table, particles, elements, compounds and mixtures, chemical reactions and chemistry practical skills. Energy, forces, electricity, particle model of matter, and Physics practical skills.