

CHEMISTRY A-LEVEL

WHAT WILL I STUDY?

Chemistry is the study of the elements and their compounds and brings together important aspects of Physics and Biology. Chemical principles underpin all biological systems and the physical environment in which we live, affecting everything from high performance materials to sustainable energy to the effectiveness of modern medicines. You will examine areas such as atomic structure, bonding, periodicity and quantitative chemistry, followed by introductions to organic and physical chemistry. In year two, organic chemistry is extended further into areas such as polymers, proteins and analytical methods. Physical chemistry topics such as kinetics, acids and bases, equilibrium, redox and energetics are also covered in greater detail. You will carry out a range of laboratory-based experiments and activities to enhance your understanding further. This will also develop your practical and evaluative skills which will be assessed within exam papers.

WHAT NEXT?

A key course for students planning to continue on to university and pursue a career in areas such as medicine, dentistry, pharmacy, environmental science, chemical engineering, materials science or biotechnology. It also provides a strong grounding for those wishing to pursue many other subject areas at degree level. Alternatively, students may consider direct entry into employment or further training.

ASSESSMENT

Exam (100%). Students must also produce a portfolio of evidence to demonstrate their competence in a variety of practical tasks.

DURATION

2 years

ENTRY REQUIREMENTS

Standard entry requirements to include grade 5 in GCSE Mathematics and English, plus grade 6 in GCSE Chemistry or 66 in Core Science and Additional Science.

EXAM BOARD

EDEXCEL

COSTS

£35 per year for textbooks and exam paper booklets.