

# Chemistry

## A Level: Level 3

### This Course

Throughout this course, you will build on your knowledge of Physical Chemistry including, but not limited to bonding, the Avogadro constant, thermodynamics and calorimetry. You will also expand your understanding of Inorganic Chemistry including but not limited to Periodicity, transition metals and catalysts. As a final unit, you will discover and explore Organic Chemistry which involves the study of Carboxylic acids, polymers, spectroscopy, organic analysis and many more topics.

### Why Chemistry?

As a fundamental part of the A Level Chemistry course you will have the chance to develop a range of theoretical and practical skills highly in demand amongst employers; problem solving, collecting precise/accurate data, interpreting results mathematically to allow valid conclusions to be drawn when carrying out scientific investigations.

Chemistry naturally relates to all of the other sciences such as; Biology, Physics and Psychology, as well as Physical Education/Sport and A Level Mathematics.

Students may go on to study and work in Biotechnology, Forensic Science, Medicine, Sports Science, Nano technology, Pharmacologist, Engineering or Natural Sciences for example.

### What's expected from me?

We expect passion for the subject, good personal organisation and commitment. You need to demonstrate that you are eager to learn, make progress and are willing to be actively involved in all aspects of the course as well as the wider Science department. You will need to have good time management skills to meet deadlines and balance revision. Throughout the course you need to be independent in expanding your knowledge/understanding of Chemistry and be pro-active in identifying areas for development.

**Entry requirements:** students should have a Grade 6 or above in GCSE Chemistry, or 6-6 or above in GCSE Combined Science. A Grade 6 or better in GCSE Mathematics is also required, as well as a Grade 5 in GCSE English.