

# Chemistry

Chemistry is taught as part of an integrated Science course which encompasses all three strands of Science.

In Year 9, pupils are then taught Chemistry by a specialist teacher. During the course, pupils investigate, through practical tasks, subjects such as the three states of matter, pressure in liquids, reactions of acids and metals and also the structure of the atom.

*“Chemistry tests your attitude to learning. We have had lots of opportunities to use our theoretical knowledge through practical tasks.”*  
- Year 11 pupil



In Chemistry, students study a huge range of topics over the years, from the simple structure of the atom, to molecular concentration calculations.

We tackle all concepts using practical activities and we move away from the traditional beakers and test tubes, and make, for example, Le-mole-ade and Molebert Sherbet, both of which the students can eat! Chemistry, like all sciences, is a practical subject. We work alongside universities and the Royal Society of Chemistry to ensure all lessons are in line with the best practice, using their input to prepare our students using degree-level study should this be their wish.

Our trips include visits to University of Warwick, University of Northampton and to local businesses such as Scott Bader.



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## Key Stage 4

At GCSE, our syllabus gives students to have a firm understanding of the world of Chemistry, without restricting their own thinking.

They follow a scheme of work based on practical studies and, wherever possible, learn through their own independent research. Throughout the course students carry out practical activities including measuring energy changes in chemical reactions, tests for identifying different types of compound, titration and chromatography.



*"I love the fact we do lots of practical work." - Year 8 pupil*

## Key Stage 5

A Level Chemistry attempts to answer the big question 'what is the world made of?' and it is the search for this answer that makes this subject so fascinating for our students.

From investigating how one substance can be changed drastically into another, to researching a new wonder-drug to save millions of lives, the opportunities that Chemistry provides are endless. Studying A Level Chemistry at Northampton High means the chance to work with dedicated teachers, passionate about teaching their specialist subject, supported by a fantastic expert Chemistry Technician.

What makes Northampton High so different is our complete dedication to ever-evolving teaching methods with new and varied practicals – we always try to be ahead of the changing landscape.



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