



Who is this course for?

Students who have gained grade 6/6 or better in Combined Science and have a grade 6 or better in maths & English

What could it lead to? As the 'central' science, Chemistry is required for many different science degrees & is essential for medicine & veterinary science. The skills developed (e.g. analysing data, problem solving, close attention to detail) are appreciated by a wide range of employers, including accountancy and law companies.

What is the course about?

Chemistry involves the study of atoms & molecules and how & why they interact. During the course you will make useful products such as aspirin, soap and nylon. You will dissolve 1 pence coins to determine their copper content, analyse the iron content of spinach and extract limonene, an essential oil, from oranges. You will learn how to carry out practical work safely & effectively, collect and analyse results. You will solve problems logically & mathematically and use the language of Chemistry (formulae, equations & diagrams as well as words such as 'enthalpy') precisely to explain observations. It is a challenging but rewarding course.

How will I be assessed and what will I be studying?

AQA A level chemistry course 7405 requires you to take 3 2 hour exams at the end of Year 13. You will also carry out practical work to gain the practical endorsement award which is now usually required for you to study a science degree at university.

Physical chemistry The theoretical parts of chemistry, including atomic structure, chemical calculations, bonding, rates of reaction, acids & bases, equilibria and energetics.

Inorganic chemistry The study of reactions of Groups 2, 7 & transition metal elements plus periodicity.

Organic chemistry The study of reactions of carbon-containing compounds, e.g. alkenes, alcohols and benzene.

Useful websites/further reading

<https://successatschool.org/advisedetails/190/Why-Study-Chemistry%3F>

<http://www.futuremorph.org/14-16/next-steps/follow-your-favourite-subject/careers-from-chemistry/>

A coin dissolving in nitric acid

