

Chemistry

Exam board: AQA

Entry requirements:

GCSE Grade 6 or above in Chemistry or GCSE Combined Science Grade 6 or above. If you are taking GCSE Combined Science, you must have scored a grade 6 in the Chemistry units. However, a Grade 7 or 8 is strongly recommended. Grade 6 or above in Mathematics is also strongly recommended.

Course content:

A-Level Chemistry gives you the opportunity to study a core of key concepts in greater detail. Many of the ideas first covered at GCSE will be revisited, but with a greater emphasis on explaining, rather than simply describing the behaviour of molecules.

Topics include Atomic Structure and the Periodic Table, Energetics, Mole Calculations, Kinetics and Organic (carbon) Chemistry. While studying A-Level Chemistry you will develop practical skills that include making observations, collecting data, analysing experimental results and formulating conclusions. You will also gain an appreciation of how scientific models develop and evolve, the applications and implications of science, the benefits and risks that Science brings and the ways in which society uses Science to make decisions.

Assessment:

Paper 1: Further Inorganic & Physical Chemistry

Paper 2: Further Organic & Physical Chemistry

Paper 3: All topics including experimental techniques

You will also undertake a number of Core Practicals throughout the year to gain a separate 'Practical Endorsement'.



Why choose Chemistry:

If you are analytically minded, enjoy problem solving, you should think about choosing Chemistry at FSG. You will not only have the opportunity to learn about the different aspects of the specification, but students have also had the opportunity to work with Greenwich University, the Royal Society of Chemistry and different companies including Pfizer, to test the different compounds that you make in the lab. The most importantly, if you are an independent, hardworking, resilient, critical, and logical thinker who is able to come up with creative solutions to problems, Chemistry is the subject for you.

Skills and progression:

From a Zookeeper to a Petroleum engineer, an A-Level in Chemistry can open many doors for you to be able to enter a range of fields including; Medicine, Offshore Drilling, Pharmacology, Ecology and Meteorology. Doing an A-Level in Chemistry will allow you to delve deeper and gain further understanding of the way the world works, why copper sulphate is blue but iron sulphate is green, whilst giving you the opportunity to work on your ability to analyse and problem solve, time management and organisation, monitoring, recording and handling data, research and practical skills.