

# Chemistry

## Course description

A-level Chemistry is the study of Inorganic, Physical and Organic Chemistry. It develops both knowledge and practical skills for each of the three areas through theory based lessons and practical skills. During the two year course 12 Required Practical's also form their Practical Endorsement which is assessed as a Pass or Fail.

## Course content

Year 1 topics include: Atomic Structure and Bonding, Organic Chemistry, Amount of substance, Energetics, Redox Chemistry, Group 2 and Group 7, Kinetics, Inorganic Chemistry

Year 2 topics include : Further Organic Chemistry including Aromatic Chemistry, Instrumental Techniques, Thermodynamics, Acid Bases, Transition Metals, Periodicity.

## Assessment

Paper 1— Relevant Physical chemistry topics (sections 3.1.1 to 3.1.4, 3.1.6 to 3.1.8 and 3.1.10 to 3.1.12), Inorganic chemistry (Section 3.2), Relevant practical skills.

- written exam 2 hours in total, 105 marks in total, 35% of A-Level.
- Questions 105 marks of short and long answer questions.

Paper 2— Relevant Physical Chemistry topics (sections 3.1.2 to 3.1.6 and 3.1.9), Organic chemistry (Section 3.3), Relevant practical skills.

- written exam 2 hours in total, 105 marks in total, 35% of A-Level.
- Questions 105 marks of short and long answer questions.

Paper 3— Any content and any practical skills.

- written exam 2 hours in total, 90 marks in total, 30% of A-Level.
- 40 marks of questions on practical techniques and data analysis, 20 marks of questions testing across the specification, 30 marks of multiple choice questions.

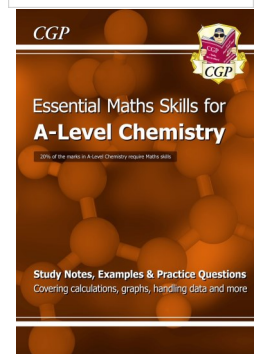
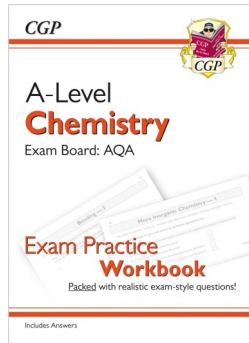
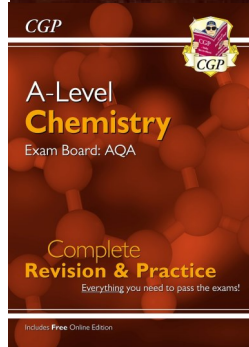
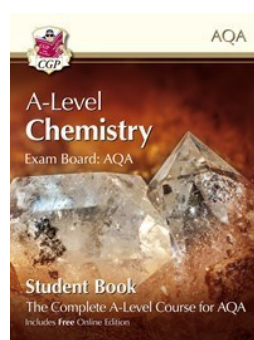
# Chemistry

## Recommended textbook / revision guide

### Year 12 & 13

- CGP A-Level Chemistry Exam Board: AQA Student book—The Complete A-Level Course for AQA.
- CGP A-Level Chemistry Exam Board: AQA Year 1 & 2 Complete Revision & Practice
- CGP A-Level Chemistry Exam Board: AQA Year 1 & 2 Exam Practice Workbook
- CGP Essential Maths Skills for A-Level Chemistry

Whilst it is not essential for students to have their own copy of the textbook it would be advantageous for students to have a copy to complement their notes and promote wider reading.



# Chemistry

## Future pathways

The subject of Chemistry leads to a wide variety of different professions. Whilst this is not an exhaustive list it does give you an idea of the wide variety of roles that can be accessed after studying Chemistry.

- Medicine
- Forensic Scientist
- Dentist
- Vet
- Pharmacist
- Dietician or Nutritionist
- Analytical Chemist
- Research Assistant
- Patent Attorney
- Bioanalytical Scientist
- Nanotoxicologist
- Sports Scientist
- Atmospheric Chemist
- Environmental Chemist
- Law
- Astrochemist
- Tax Accountant
- Chemical Engineer
- Teacher