

# Chemistry AS Level

Examination Board: AQA AS Advanced Subsidiary and A2 GCE Chemistry  
Specification 1421 Teachers: Janet Thomson, Sarah Thomas, & Jonathan Newell  
Head of Department: Jonathan Newell



All of life's burning questions answered by.....CHEMISTRY

## You should do this course if.....

You enjoy Chemistry and can understand the chemistry behind issues in the news. It is a demanding course that requires a strong desire to succeed.

## During the course you will:

Develop your interests in chemistry.  
Develop knowledge and understanding in chemistry.  
Develop skills needed for the use of new knowledge in new and changing situations.  
Develop an understanding of the link between theory and experiment.  
Appreciate how chemistry has developed and is used in society.  
Recognise the quantitative nature of chemistry.  
Bring together knowledge of ways in which different areas of chemistry link together.

This is a modular course and a natural progression from science GCSE. Many of the topics that you studied at GCSE will be examined at greater depth.

## Topics Included:

AS— Atomic structure, Organic chemistry and Energetics

A2—Equilibria, Transition metals and more organic chemistry.

## Exams

### AS Unit 1 Foundation Chemistry

Available January & June  
70 raw marks/100 UMS).  
1 hour 15 minutes  
4 – 6 short plus 1 – 2 longer question(s).

**33.33% of total AS marks (16.66% of A2)**

### AS Unit 2 Chemistry In Action

Available in January & June  
100 raw marks/140 UMS.  
1 hour 45 minutes  
6 – 8 short plus 2 longer questions

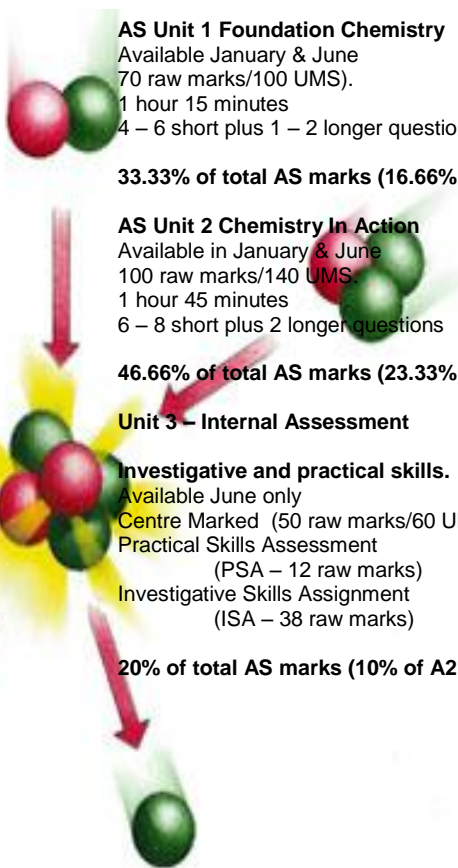
**46.66% of total AS marks (23.33% of A2)**

### Unit 3 – Internal Assessment

#### Investigative and practical skills.

Available June only  
Centre Marked (50 raw marks/60 UMS)  
Practical Skills Assessment  
(PSA – 12 raw marks)  
Investigative Skills Assignment  
(ISA – 38 raw marks)

**20% of total AS marks (10% of A2 marks)**



# Chemistry A Level



Life is empty without  
*CHEMISTRY!*

## How will you learn?

The course enables students to use a variety of learning styles to build knowledge and understanding of chemistry.

Working independently and with others in groups you will be involved in:

Research skills

Presentation skills

Practical skills - competence, ability to make valid, accurate & reliable measurements, analysis and evaluation of quantitative experiments, observation & interpretation

You will develop an understanding of 'How Science Works' and improve your examination skills.

## Where does the course lead?

Chemistry is demanding, enjoyable and rewarding and an ideal subject to study to broaden an academic programme and keep options open.

Chemistry AS/A-level is one of the most sought after qualifications for entry into Higher Education in any field but especially for Sciences, Medicine and manufacturing.

Chemistry is essential for Degrees in Chemistry, Biology, Veterinary Science and Medicine. Chemistry is also highly regarded by employers, who recognize that it helps to develop students' numeracy and analytical skills.

As well as going on to work as scientists, former Woking College chemists are following careers as varied as law, pharmacy, physiotherapy, dietetics, forensic, environmental and energy science as well as commerce.

## Exams at A2

### A2

#### Unit 4 Equilibria & Organic Chemistry

Available January & June

100 raw marks/120 UMS

6 – 8 short plus 2 – 3 structured questions.

Some of the questions will have synoptic elements.

1 hr 45 mins 20% of the total A Level marks

#### Unit 5 Energetics, Redox and Inorganic Chemistry

Available January & June

100 raw marks/120 UMS

6 – 8 short plus 2 – 3 longer structured questions. Some of the questions will have synoptic elements.

1 hr 45 mins 20% of the total A Level marks

#### Unit 6 – Internal Assessment Investigative and practical skills

Centre Marked (50 raw marks/60 UMS)

Practical Skills Assessment

(PSA – 12 raw marks)

Investigative Skills Assignment

(ISA – 38 raw marks)

10% of the total A Level marks

## Entry Requirements

5C's at GCSE.

Grade C or above in Science and Maths **and** in Additional Science or Chemistry.

Communication is also important, so you must be able to communicate effectively during practical sessions, as well as being able to research and critically think about problems.