

# GCE A LEVEL CHEMISTRY (AQA)

Subject Area	Qualification	Level	Awarding Body
Sixth Form / A levels	GCE A level Chemistry (AQA)	Level 3	Edexcel

## Course Summary

At AS Level candidates are given a solid grounding in foundation Chemistry. The specification introduces the chemical reactivity of atoms and molecules and provides an understanding of their structures. The development and use of periodic table is explained.

### • Unit 1: Foundation Chemistry

Atomic structure, the amount of substance including the Mole concept, Chemical bonding including ionic, covalent and metallic bonding. The periodic table and trends across the table and down specific groups. An introduction to organic chemistry including alkanes, isomers and the distillation of crude oil.

### • Unit 2: Chemistry in Action.

The unit consists of the areas of Energetics, Kinetics, Equilibria reactions. Redox reactions as well as a detailed study of key groups including Group 2 metals and Group 7 (halogens). Further study of areas of organic chemistry to include alkenes, haloalkanes, alcohols and also important analytical techniques. The extraction of important metals are studied.

### • Unit 3: Centre Based Practical Assessment

### • Unit 4: Kinetics, Equilibria and Organic Chemistry

Units covered in greater detail Kinetics, Equilibria, Acid base theory. Organic chemistry topics including naming compounds, isomerism, Aromatic chemistry, Amines, Amino acids, polymers, organic synthesis and analysis. Determining structures through infra red spectroscopy and nuclear magnetic resonance.

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

Main topic covered: Thermodynamics, Periodicity, Redox and equilibria, Transition Metals and reactions of inorganic compounds.

## Entry Requirements

You will be required to have passed a minimum of 5 GCSEs at C and above but you must have a grade B in both your Science and Mathematics GCSEs and a grade C minimum in English. You will also be expected to attend an interview at college.

## How do I apply/join this course?

You first need to complete an application form. You can find a form in the back of the Prospectus or you can call our Information Centre on (01527) 570020 and they will send you a form in the post. Alternatively you can complete the form on-line by visiting the College's website [www.ne-worcs.ac.uk](http://www.ne-worcs.ac.uk).

Once we have your form we will invite you to come into College and meet with a member of our teaching Team so you can ask any other questions you have. Usually at this meeting we will either offer you a place on the course you have applied for or, in some cases an alternative course.

## How much time will I spend on the course?

You will receive 4 ½ hrs of laboratory based tuition (1 ½ hour lessons) in addition to this you will be expected to supplement this with a similar amount of self study time.

## How will I be assessed?

### Unit 1: Foundation Chemistry

1 hour 15 minutes

33 1/3% of the total AS mark

16 2/3% of the total A Level marks

### Unit 2: Chemistry in Action.

1 hour 45 minutes

46 2/3% of the total AS marks

23 1/3% of the total A Level marks

### Unit 3: Investigative and practical skills

20% of the total AS marks

10% of the total A Level marks

### Unit 4: Kinetics, Equilibria and Organic Chemistry

1 hour 45 minutes

20% of the total A Level marks

Some of the questions will have synoptic elements and include some chemistry taught in AS units.

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

1 hour 45 minutes

20% of the total A Level marks

Some of the questions will have synoptic elements.

### Unit 6: Internal Assessment Investigative and practical skills in A2 Chemistry

10% of the total A Level marks. Similar structure to AS unit 3.

## Can I get any financial support with the costs of study?

From September 2011, young people who need financial support to help them stay in Education or training after 16 can apply to NEW College for the new 16-19 Bursary Fund.

Those most in need will be eligible for a bursary of £1200 a year. This includes young people in care, care leavers, young people receiving income support and disabled young people receiving both Employment Support Allowance and Disability Living Allowance. Young people eligible for income support will include some teenage parents, young people estranged from their families, and those whose parents have died.

Other students facing financial difficulties may also be able to claim a bursary to help with costs of transport, food, equipment or other course-related costs.