

**GCE AS Chemistry****Exam board: AQA****Duration: 1 Year****COURSE DETAILS/UNITS AND AIMS**

The AS Chemistry course is a 1 year course worth a maximum 20 UCAS points.

The course contains 3 topics each of which contain practical skills assessments that must be passed to gain the qualification.

**Assessment**

The course will be assessed at the end of the year with two 90 minutes exam papers. Both papers are made up of 65 marks of short and long answer questions and 15 marks of multiple choice questions. Paper 1 will test your knowledge of physical and inorganic chemistry and Paper 2 will test you on Physical and Organic Chemistry. In addition around 20% of the questions will test your practical skills and therefore your ability to understand and carry out practical's is also vital for success as is a good understanding of Higher tier GCSE maths.

**Content****Physical Chemistry**

In this section of the qualification you will look at Atomic Structure, Amounts of substances, Bonding, Energetics, Kinetics, Chemical equilibria, Le Chatelier's principal and Redox reactions.

**Inorganic Chemistry**

This unit will focus on the period table and looks at its structured organisation. You will look at the period 3 elements in detail before moving on to study the various properties and reactions of the Alkali metals and the halogens.

**Organic Chemistry**

For those who do not understand organic chemistry it is simply the study of various compounds that contain Chemistry. These structurally diverse compounds vary from naturally occurring petroleum fuels to DNA and the molecules in living systems. Organic compounds also demonstrate human ingenuity in the vast range of synthetic materials created by chemists. Many of these compounds are used as drugs, medicines and plastics. During our first weeks studying this topic you will be

**SKILLS AND QUALIFICATIONS REQUIRED**

The skills you will need to develop and extend will include practical lab skills, report writing and research techniques. There will be an expectation that after each practical you would write up the investigation in full during your private study time. Therefore you must also be comfortable with fully writing up investigations, analysing and presenting the data and able to draw conclusions based on your evidence.

Due to the technical nature of this subject entry requirements are **BB in your GCSE Sciences**, one of which must be Chemistry if you took the triple award and a **B for**

**CAREER INFORMATION**

A chemistry qualification could open doors to all sorts of jobs. The food we eat, the clothes we wear and the technology we use all depend on chemistry. Chemists develop new medicines, safeguard our food supply and monitor and protect our environment.

**FURTHER INFORMATION PLEASE CONTACT - Mr D Huckin**

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