

## **SUBJECT: CHEMISTRY IB HIGHER**

**HEAD OF DEPARTMENT:  
MRS K ARDLEY  
HEAD OF SUBJECT:  
MISS R CUTTERIDGE**

**SYLLABUS NUMBER:  
Chemistry first assessment 2016**

### **SYNOPSIS OF CONTENT**

The course comprises a central core of study for HL and SL including the following topics:

• Stoichiometry	• Kinetics
• Atomic structure	• Equilibrium
• Periodicity	• Acids and bases
• Chemical bonding	• Redox
• Energetic	• Organic chemistry

Higher students undertake additional study for each topic.

Students also study one extension module.

### **SKILLS THAT WILL BE DEVELOPED**

An interest in, and enthusiasm for, Chemistry.  
Appreciation of how society makes decisions about scientific issues and how the sciences contribute to the success of the economy and society.  
An understanding of the nature of science.  
Essential knowledge and understanding of different areas of Chemistry and how they relate to each other.  
Practical investigation skills and personal engagement with a project of choice.

### **SOME USEFUL WEBSITES**

[www.rsc.org](http://www.rsc.org)  
[www.bbc.co.uk](http://www.bbc.co.uk)

A number of IB past exam papers can be found at:  
[www.freeexampapers.com/past](http://www.freeexampapers.com/past)

### **ASSESSMENT**

There are three externally assessed papers:

**Paper 1:** duration 1 hour, 40 multiple choice questions on core and AHL. 40 marks.

**Paper 2:** duration 2¼ hours, short answer and extended response questions on the core and AHL material. 95 marks.

**Paper 3:** duration 1¼ hours, section A: one data based question and several short answer questions on experimental work. Section B short answer and extended-response questions from one option. 45 marks.

**Internal assessment** of an individual investigation which will involve practical work. This is worth 20% of the final result.

### **SPECIFIC MATRICULATION REQUIREMENTS**

A **grade B** or higher in GCSE Chemistry, Core **and** Additional science. Students **must also** have achieved a grade B or higher in the Chemistry components of their Core and Additional Science GCSEs.

A grade 6 in GCSE Mathematics is essential, but studying Mathematics at Higher level is not essential.

### **OTHER INFORMATION** **E.g. Field Trips/expenses/books**

Students may wish to purchase their own copy of the new textbook 2014 edition IB Chemistry course companion, Oxford.

ISBN number 978-0-19-839212-5