

SUBJECT: CHEMISTRY IB STANDARD

**HEAD OF DEPARTMENT:
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**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
- Atomic structure
- Periodicity
- Chemical bonding and structure
- Energetic
- Kinetics
- Equilibrium
- Acids and bases
- Redox
- Organic chemistry

Students also study one extension unit.

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
www.bbc.co.uk

A number of IB past exam papers can be found at:
www.freeexampapers.com/past

ASSESSMENT

There are three externally assessed papers:

Paper 1: ¾ hour, 30 multiple choice questions on core. 30 marks, 20%

Paper 2: 1¼ hours, short answer and extended response questions on the core material. 50 marks, 40%

Paper 3: 1 hour, 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. 35 marks, 20%

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

SPECIFIC MATRICULATION REQUIREMENTS

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

A grade 5 in GCSE Mathematics is essential, but studying Mathematics at Higher level is not essential.

OTHER INFORMATION

Eg Field Trips/expenses/books

Students may wish to purchase their own copy of the new textbook 2014 Edition Chemistry, course companion, Oxford.
ISBN number 978-0-19-839212-5