



## **SUBJECT: Chemistry IB Standard**

**HEAD OF DEPARTMENT:**

Dr F Wall

**EXAM BOARD AND SYLLABUS NUMBER:**

IBO / QAN: 60131792

<b>SYNOPSIS OF CONTENT:</b>  The course comprises a central core of study which covers the following topics: 1. Stoichiometry 2. Atomic structure 3. Periodicity 4. Chemical bonding and structure 5. Energetics 6. Chemical kinetics 7. Equilibrium 8. Acids and bases 9. Redox processes 10. Organic chemistry 11. Measurement and data processing. Students also study one extension module.	<b>WHY STUDY THIS SUBJECT?</b>  Chemistry is an experimental science that combines academic study with the acquisition of practical and investigational skills. It is often called the central science as chemical principles underpin both the physical environment in which we live and all biological systems. You will appreciate scientific study and creativity within a global context through stimulating and challenging opportunities.
<b>HOW IS IT ASSESSED?</b>  3 papers: Paper 1: 45 mins, 30 multiple choice questions on core. 30 marks, 20%. Paper 2: 1hr 15mins, short answer and extended response questions on the core material. 50 marks, 40%. Paper 3: 1hr 15mins. 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. 20%	<b>SELF STUDY ADVICE / USEFUL WEBSITES:</b>  <a href="http://www.chemguide.co.uk/">http://www.chemguide.co.uk/</a> ; <a href="http://www.rsc.org/learn-chemistry/">http://www.rsc.org/learn-chemistry/</a> ; <a href="https://www.youtube.com/user/richthornley/videos">https://www.youtube.com/user/richthornley/videos</a>  <b>ADDITIONAL INFORMATION / CAREER OPPORTUNITIES</b> <a href="http://www.rsc.org/careers/future/your-future-chemistry">http://www.rsc.org/careers/future/your-future-chemistry</a>

	<b>SPECIFIC MATRICULATION REQUIREMENTS</b> Grade 5 in GCSE Chemistry or grade 55 in GCSE Combined Science: Trilogy, with Grade 5 in GCSE Mathematics
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