

IGCSE Chemistry

Subject Content

The Year 10 and 11 Chemistry course at Tenby International School Penang is a two year courses for examination at age 16 plus. The aims of the syllabus are the same for all students. The aims are set out below and describe the educational purposes of a course in Chemistry for IGCSE Examination.

The aims are to:

- Provide through well-designed studies of experimental and practical science a worthwhile educational experience for all students whether or not they go on to study chemistry beyond this level and in particular enable them to acquire sufficient understanding and knowledge.
- Develop abilities, attitudes and skills relevant to Chemistry.
- Stimulate interest in and care for the environment
- Promote awareness that scientific theories and methods have developed and continue to do so; and the study and practice of chemistry are subject to social, economic, technological, environmental, ethical and cultural influences and limitations.

There are four main topics covered in IGCSE Chemistry. They are:

- Basic Principles, including the Periodic Table, deriving formulae, atomic structure
- Physical Chemistry
- Inorganic Chemistry
- Organic Chemistry and the Living World

Formal Assessment

At the end of Grade 11 all candidates sitting for IGCSE Chemistry must enter for three papers. These are Paper 1, one from either Paper 2 or Paper 3, and Paper 5. The decision on whether a student is entered for the extended or core curriculum will be made in consultation with the student after the mock examinations in Grade 11.

Core curriculum Grades C to G available	Extended curriculum Grades A* to D available
<p>Paper 1 (45 minutes) Compulsory A multiple choice paper consisting of forty questions This paper will be weighted at 30% of the final total available marks.</p>	
<p>Either: Paper 2 (1 hour 15 minutes) Core theory paper consisting of 80 marks of short-answer and structured questions. This paper will be weighted at 50% of the final total available marks</p>	<p>Or: Paper 3 (1 hour 15 minutes) Extended theory paper consisting of 80 marks of short-answer and structured questions. This paper will be weighted at 50% of the final total available marks</p>
<p>Paper 5 Alternative to Practical (1 hour 15 minutes) The purpose of this component is to test appropriate skills in experimental investigations. Students are set a number of experimental problems which they have to investigate and report on during the examination period. This practical assessment will be weighted at 20% of the final total available marks.</p>	

School Assessment

Students will undertake a variety of assessment tasks each term including practical investigations, quizzes, unit tests, essays, presentations and projects. These are used to derive an attainment grade. Students are also given an effort grade in each reporting period.

Standard Texts:

IGCSE Chemistry for CIE ISBN: 9780007755455

Publisher: Collins Education

Each section in the book covers the essential knowledge and skills the students need. The textbook also has some useful features that have been designed to help the students to understand all the aspects that students will need to know for this specification. The textbook also contains extensive reading materials and varied exercises

Students who wish to extend themselves and read around the subject in more depth might like to purchase this text as well, although it is not compulsory for the course:

Cambridge IGCSE Chemistry. Published by Hodder Murray. Author: B Earl and LDR Wilford