

Chemistry

(for students studying in S4 in the 2013/14 sy and taking the 2016 HKDSE Exam)

Why do you need to study Chemistry?

The Chemistry Curriculum provides chemistry-related learning experiences for students to develop scientific literacy, so that they can participate actively in our rapidly changing knowledge-based society, prepare for further studies or careers in fields related to chemistry, and become lifelong learners in science and technology.

What will you learn from Chemistry?

This curriculum consists of compulsory and elective parts. The compulsory part covers a range of content that enables students to develop an understanding of fundamental chemistry principles and concepts, and scientific process skills. The elective part aims to provide in-depth treatment of some of the compulsory topics, or an extension of certain areas of study. In addition, to facilitate the integration of knowledge and skills, students are required to conduct an investigative study relevant to the curriculum. The curriculum structure of the subject is as follows:

| Compulsory part | Elective part (Select any 2 out of the 3 electives) |
|---|---|
| I. Planet Earth | XIII. Industrial Chemistry |
| II. Microscopic World I | XIV. Materials Chemistry |
| III. Metals | XV. Analytical Chemistry |
| IV. Acids and Bases | |
| V. Fossil Fuels and Carbon Compounds | |
| VI. Microscopic World II | |
| VII. Redox Reactions, Chemical Cells and Electrolysis | |
| VIII. Chemical Reactions and Energy | |
| IX. Rate of Reaction | |
| X. Chemical Equilibrium | |
| XI. Chemistry of Carbon Compounds | |
| XII. Patterns in the Chemical World | |
| | Investigative Study |
| | XVI. Investigative Study in Chemistry |

How will you be assessed in Chemistry?

Public Examination

The public examination results of Chemistry constitute 80% of the final subject results. Paper 1 (2 hours and 30 minutes) comprises two sections: A and B. Section A consists of multiple-choice questions and carries 18% of the subject mark. Section B includes short questions, structured questions and essay questions, and carries 42% of the subject mark. In each of the sections A and B, Part I will set questions mainly on topics I to VIII of the curriculum, while Part II mainly on topics IX to XII. Candidates have to attempt all questions in this paper. Paper 2 (1 hour) consists of structured questions and carries 20% of the subject mark. Candidates are required to answer the questions on the two elective topics selected.

School-based Assessment

The SBA results of Chemistry constitute 20% of the final subject results. SBA is compulsory for all school candidates. The table below summarises the minimum numbers of assessments and the weightings in subject required in S5 and S6 for the SBA:

| | Minimum number of assessments* | Weighting in subject |
|----|--------------------------------|----------------------|
| S5 | 2 | 10% |
| S6 | 2 | 10% |

- * Over the two years of S5 and S6, there should be at least one assessment for Volumetric Analysis (VA), one assessment for Qualitative Analysis (QA) and two assessments for Other Experiments (EXPT). Investigative Study (IS) can be done in lieu of Other Experiments. In this case, one assessment on 'proposal' and one assessment on 'process and report' should be performed. These two assessments can satisfy the minimum requirement for Other Experiments.

For further information, please refer to EDB's website "New Academic Structure Web Bulletin" (<http://334.edb.hkedcity.net/EN/>) or consult your teacher.