

Chemistry 化學 / Combined Science (Chemistry Part) 組合科學 (化學部分)
Learning and Teaching Resource List 學與教資源表

Website: <http://www.hkedcity.net/edbosp>

(A) Textbooks 課本

Printed Textbooks 印刷課本: <http://www.edb.gov.hk/rtl>

(B) Learning and teaching materials developed by EDB 教育局編制的學與教資源

No. 編號	Title / Description 題目 / 內容簡介	CRC call no./Web link 中央資源中心索書號 / 網址
Senior Secondary (S4 – S6) 高中 (中四至中六)		
1	<p>An English-Chinese and Chinese-English Glossary of Terms Commonly Used in the Teaching of Chemistry in Secondary Schools (2007) 中學化學科常用英漢及漢英辭彙 (2007)</p>	<p>http://www.edb.gov.hk/attachment/en/curriculum-development/kla/science-edu/ref-and-resources/glossary_chem2007.pdf</p> <p>http://cd1.edb.hkedcity.net/cd/science/glossarysci_eng.html</p>
2	<p>Investigative Study in Chemistry – Exemplars of Learning and Teaching Activities 化學的探究研習 – 學習活動示例</p> <p>This book includes six exemplars which aim at providing students with opportunities to design and conduct investigations to solve authentic problems. 本書透過六個活動示例，幫助學生設計和進行探究，以解決與化學相關的問題。</p>	<p>http://cd1.edb.hkedcity.net/cd/science/chemistry/nss/is/nss_is_eng.pdf</p> <p>http://cd1.edb.hkedcity.net/cd/science/chemistry/nss/is/nss_is_chi.pdf</p>
3	<p>Nomenclature of Organic Compounds (Version 1.1) 有機化合物命名法 (版本 1.1)</p> <p>This resource introduces the naming system for alkanes, alkenes, halogeno compounds, alcohols, alkanolic acids and esters. 本教材提供烷烴、烯烴、鹵代化合物、醇、羧酸和酯的命名法則。</p>	<p>http://cd1.edb.hkedcity.net/cd/science/chemistry/resource/naming/intro.htm</p>
4	<p>Promoting the Quality of Chemistry Learning with Active Reading and Writing Tasks – Exemplars of Learning and Teaching Activities 促進化學科學習的閱讀及寫作計畫 – 學習活動示例</p> <p>This book includes four exemplars which aim at enhancing the quality of learning of Chemistry using specially designed reading and writing tasks. (Password required)</p>	<p>http://cd1.edb.hkedcity.net/cd/science/chemistry/zipfile/active_rw.zip</p>

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	本書提供四個活動示例，每個示例均透過特別設計的閱讀與寫作課業以促進化學的學習。(需要密碼)	
5	<p>Stoichiometry and Mole 化學計量學和摩爾</p> <p>This web-based resource includes learning and teaching activities on the stoichiometry and mole calculations in chemistry. 本網上資源提供有關化學計量學和摩爾計算的學習與教學活動。</p>	http://evises.evi.com.hk/chem/
6	<p>Resource Kit for Secondary 4-5 Chemistry 中四至中五化學教材套</p> <p>This package includes exemplars of learning activities and inquiry-based chemistry experiments 本教材套包括探究為本化學實驗和學習活動教材示例。</p>	<p>EDB 540 Z46 2003</p> <p>http://cd1.edb.hkedcity.net/cd/science/chemistry/teaching_material.html</p>
7	<p>Resource Materials on A-Level Chemistry Experiments (Chinese version only) 高級程度化學實驗資料冊</p> <p>This resource presents A-level chemistry experiments. 本冊子提供一系列高級程度化學實驗資料。</p> <p>(Also suitable for SS Chemistry and Combined Science (Chemistry Part)) (亦適用於高中化學及組合科學(化學部分))</p>	<p>EDB 371.382 G36 1996</p> <p>http://cd1.edb.hkedcity.net/cd/science/chemistry/zipfile/al-expt.zip</p>
8	<p>Chemistry Animations for Secondary 4-5 中四至中五化學動畫</p> <p>This resource introduces various chemistry concepts through animations. 本教材以動畫的形式，介紹各種化學概念。</p>	<p>http://cd1.edb.hkedcity.net/cd/science/chemistry/resource/animations/index.htm</p> <p>http://cd1.edb.hkedcity.net/cd/science/chemistry/resource/animations/index_tc.htm</p>
9	<p>Learning and Teaching Activities for the Revised Sixth Form Chemistry Curriculum 中六級化學課程學習活動示例</p> <p>This resource presents exemplars of learning and teaching activities for A-level Chemistry, including IT for interactive learning activities, microscale chemistry experiments, reading to learn activities and inquiry-based chemistry experiments.</p>	<p>http://cd1.edb.hkedcity.net/cd/science/chemistry/LTA.html</p>

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	<p>本教材提供一些高級程度化學課程的學習活動示例，包括運用資訊科技進行互動學習、微型化學實驗、從閱讀中學習的活動和探究為本的化學實驗。</p> <p>(Also suitable for SS Chemistry and Combined Science (Chemistry Part)) (亦適用於高中化學及組合科學(化學部分))</p>	
10	<p>Visualising Chemistry 智趣化學</p> <p>This package presents 22 chemistry experiments through video to cultivate students' intrinsic interests in chemistry and develop their understanding of the relevant concepts.</p> <p>本教材包括 22 個化學實驗的影片，目的是提高學生學習化學的興趣及促進其對相關化學概念的理解。</p>	<p>http://cd1.edb.hkedcity.net/cd/science/chemistry/resource/vc/index.html</p>
11	<p>Exercises on Structure Determination of Organic Compounds (Mass Spectrometry) 有機化合物結構的測定習作(質譜法)</p> <p>This resource presents exercise and suggested solutions on structure determination of organic compounds by mass spectrometry.</p> <p>本教材提供一些有關利用質譜法測定有機化合物結構的習作和建議答案。</p>	<p>http://cd1.edb.hkedcity.net/cd/science/chemistry/teaching_material.html</p> <p>http://cd1.edb.hkedcity.net/cd/science/chemistry/teaching_material_c.html</p>
12	<p>Reactions of Metals 金屬之反應</p> <p>This web-based resource includes learning and teaching materials and activities on the chemistry of metals.</p> <p>本網上資源提供有關金屬性質與反應的教學資源及活動。</p>	<p>http://cd1.edb.hkedcity.net/cd/science/chemistry/resource/reactions/main.html</p>
13	<p>Reaction Mechanism Animation 反應機理動畫</p> <p>This web-based resource introduces seven organic reaction mechanisms through animations. It also includes a quiz for students to familiarise with the concepts.</p> <p>本網上資源以動畫的形式介紹七個有機化學反應機理。此外，測驗部分能幫助學生熟悉有關概念。</p>	<p>English version</p> <p>User guides: http://cd1.edb.hkedcity.net/cd/science/chemistry/UserGuide_e.doc</p> <p>Animations: http://cd1.edb.hkedcity.net/cd/science/chemistry/mech_e/Tutorial_29092007.swf</p>

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		中文版 使用手冊： http://cd1.edb.hkedcity.net/cd/science/chemistry/UserGuide_c.doc 動畫： http://cd1.edb.hkedcity.net/cd/science/chemistry/mech_c/Tutorial_05c.swf
14	Writing with Chemistry Specific Genres 化學科專科語體寫作 This web-based resource aims at providing one-stop online platform for chemistry teachers for guiding students using chemistry specific genres in reading and writing tasks. In addition, the contents are also available in booklets. 本網上資源為化學科教師提供一站式的網上交流平台，指導學生進行化學科專科語體的閱讀及寫作活動。再者，相關內容亦以小冊子出版。	http://ifile.hkedcity.net/1/001/926/genre/index-e.html http://ifile.hkedcity.net/1/001/926/genre/index-c.html
15	Resource Book for Sixth-form Practical Chemistry 中六級化學實驗資料冊 This resource consists of 12 experiments in various topics such as drug development, green chemistry and spectroscopic analysis of compounds. (Password required) 本資源包括 12 個不同範疇的實驗，例如有關藥物發展和綠色化學，以及涉及光譜分析法的實驗。(需要密碼)	http://www.cuhk.edu.hk/chem/en/resources/sscorner.html
16	Chemistry Experiment Techniques 化學實驗技巧 This web-based resource includes 23 videos demonstrating chemistry experiment techniques and chemical analyses. 本網上資源包括 23 個示範化學實驗技巧和化學分析的影片。	http://minisite.proj.hkedcity.net/chemtech/eng/index.html http://minisite.proj.hkedcity.net/chemtech/cht/index.html
17	Chemistry Instructional Videos 化學教學影片 This is a collection of instructional video clips ranging from concepts and	中文旁白及中文字幕 / Chinese narrative and subtitle : https://www.youtube.com/playlist?list=PLzsY_CILZpCElWp

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	<p>skills related to "formula and chemical equation", reactions of metals, as well as redox reactions in chemical cells. The clips are suitable for the use of S4 Chemistry students.</p> <p>這是一系列學習短片，涵蓋與「方程式和反應式」、金屬的反應，以及化學電池中的氧化還原反應相關的概念和技能。這些短片適合中四級修讀化學科的學生使用。</p>	<p>KJVJpGmaJekUpJo5fa</p> <p>中文旁白及英文字幕 / Chinese narrative and English subtitle :</p> <p>https://www.youtube.com/playlist?list=PLzsY_CILZpCE166qKYntyRhQd6R7PJyU2</p> <p>英文旁白及英文字幕 / English narrative and subtitle :</p> <p>https://www.youtube.com/playlist?list=PLzsY_CILZpCFjqlu9tXcV0ZGIaCGT154</p>

(C) Other useful resources / web links 其他有用資源 / 網上資源

No. 編號	Title 題目	Web Link 網址
1	<p>Case-based Learning of High School Science Subjects to Support Learning to Learn.</p> <p>在科學科目上應用個案基礎學習法以促進學會學習</p>	<p>http://www.cuhk.edu.hk/sci/case-learning/whatcase.htm</p>
2	<p>Enhancing Senior Secondary Students' Understanding of Nature of Science and the Interconnection between Science, Technology and Society through Innovative Teaching and Learning Activities.</p> <p>以創新教學活動提升高中學生對科學本質及科學、科技與社會的互動關係的了解</p>	<p>http://learningscience.edu.hku.hk/</p>
3	<p>Edblog – Chemistry Teachers Professional Development and Resource Sharing Platform</p> <p>教城網誌—化學科教師專業發展交流平台</p>	<p>http://edblog.hkedcity.net/nssc_hem</p>
4	<p>Resources Depository - ETV, EDB</p> <p>教學資源庫 - 教育局教育電視</p>	<p>http://etv.hkedcity.net/</p>