





RECENT POSTS

IUPAC Concentrate - sample 2023-10-18  
 2024 IUPAC/Sulway International Award for Young Chemists - Call for applicants  
 IUPAC Announces the 2023 Top Ten Emerging Technologies in Chemistry  
 #IOC Alert 'Pure and Applied Chemistry' - October 2023  
 The Top Ten Emerging Technologies in Chemistry - Call for Proposals for 2024

CATEGORIES

RECENT RELEASES  
 FOR PUBLIC REVIEW  
 UPCOMING DEADLINES

CONNECT CHEMISTRY TO SUSTAINABILITY

11 Jul 2022  
 Facebook Tweet Pin

Global Release of Interactive Planetary Boundaries Systems Thinking Learning Tool to Connect Chemistry to Sustainability

To coincide with the launch of the International Year of Basic Sciences for Sustainable Development, on 8 July 2022, the King's Centre for Visualization in Science and a working group of the IUPAC Systems Thinking in Chemistry for Sustainability (STCS-2030+) project announce the release of a new free interactive tool for global dissemination based on the Planetary Boundaries framework to help chemists and educators better understand Earth system sustainability challenges and to connect chemistry to sustainability using systems thinking.

The new tool, freely available at <https://planetaryboundaries.kcvscs.ca/>, highlights the fundamental role that chemistry plays in regulating nine individual biophysical Earth

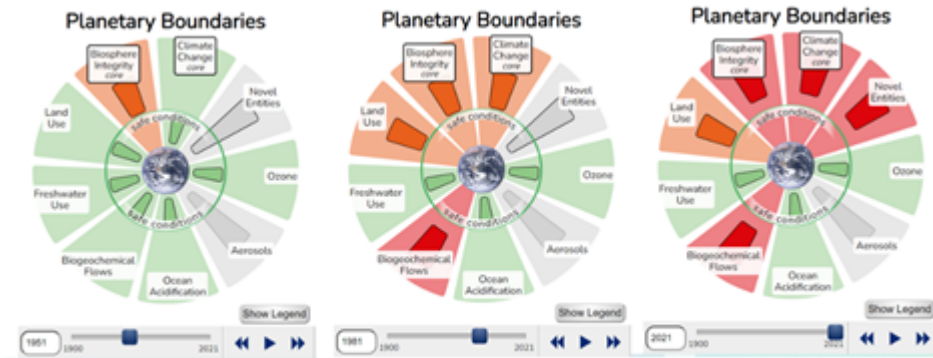


Planetary Boundaries

<https://iupac.org/connect-chemistry-to-sustainability/>

PROCESS

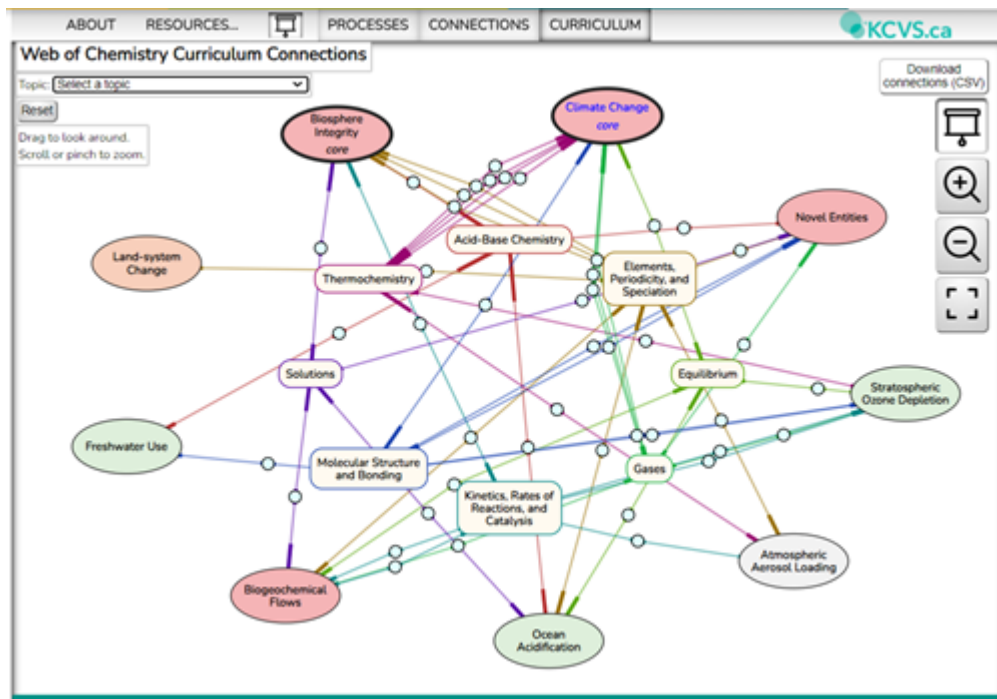
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<https://iupac.org/connect-chemistry-to-sustainability/>



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Biosphere Integrity  
 Climate Change  
 Biogeochemical Flows  
 Land-system Change  
 Ocean Acidification  
 Freshwater Use  
 Stratospheric Ozone Depletion  
 Atmospheric Aerosol Loading  
 Novel Entities

Thermochemistry  
 Equilibrium  
 Gases  
 Solutions  
 Molecular Structure and Bonding  
 Acid-Base Chemistry  
 Elements, Periodicity, and Speciation  
 Kinetics, Rates of Reactions, and Catalysis

課程內容

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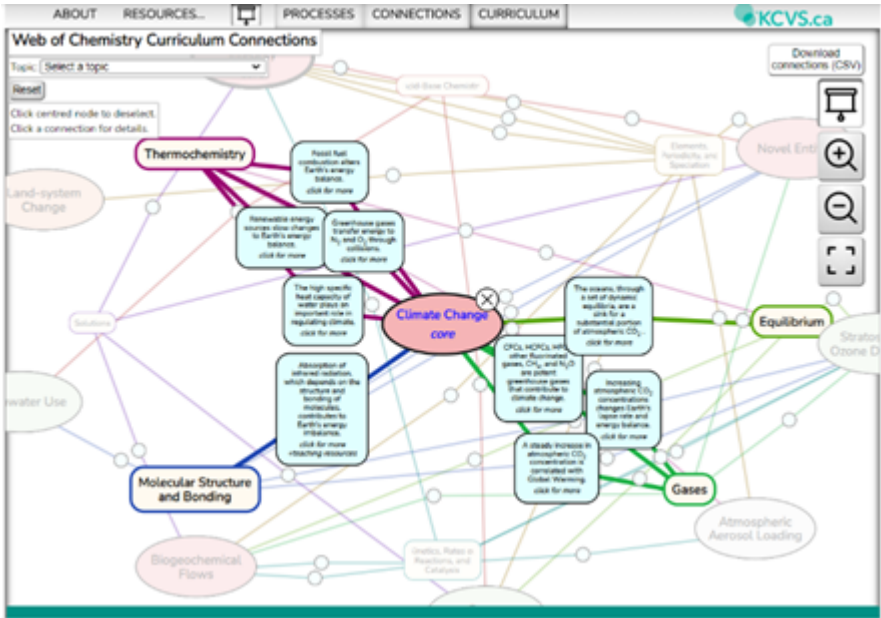
學期報告：永續發展目標(SDGs)與高中化學的連結

關鍵字：Sustainable Planetary Chemistry IUPAC

<https://iupac.org/connect-chemistry-to-sustainability/>

The image shows a screenshot of a webpage from IUPAC. The main content area features a circular diagram titled 'Planetary Boundaries' with various colored segments. To the right of the diagram is a text block. A yellow callout box labeled 'CURRICULUM' is overlaid on the right side of the screenshot, containing the following text: '學期報告內容', '紀錄：完成探索及翻譯', '紀錄：撰寫心得', '中文內容', '頁數：限3頁'.

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<https://iupac.org/connect-chemistry-to-sustainability/>



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<https://iupac.org/connect-chemistry-to-sustainability/>

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Luviani S. D, Mulyani S, & Widhiyanti T. (2021). A review of three levels of chemical representation until 2020. *Journal of Physics: Conference Series*, 1806, 012206.

International Union of Pure and Applied Chemistry (IUPAC) (2023.11.7). Connect Chemistry to Sustainability. Retrieved November 7, 2023 from <https://iupac.org/connect-chemistry-to-sustainability/>