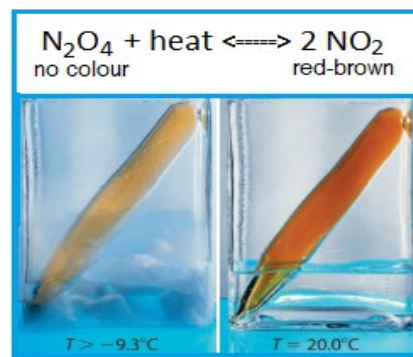




Chemistry 12

Chemistry 12 begins with reactions, reversible reactions, and the concept of dynamic equilibrium. This understanding (Units 1&2) forms the framework for the study of three branches of chemistry: Solution Chemistry, the Chemistry of Acids, Bases and Salts, and finally Electrochemistry. The big ideas in the course:



Reactants must collide to react and the *reaction rate* is dependent on the surrounding conditions

Dynamic equilibrium can be shifted by changes to the surrounding conditions.

Saturated solutions are systems in equilibrium.

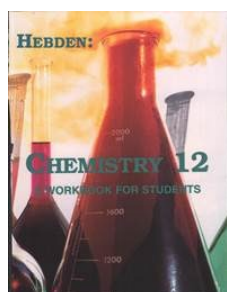
Acid or base strength depends on the degree of ion dissociation.

Oxidation & reduction are complementary processes that involve the gain or loss of electrons.

Chemistry 11 (or permission from the teacher) is a prerequisite for this course. Curriculum details can be found at: <https://curriculum.gov.bc.ca/curriculum/science/12/chemistry>.

Resources

Lessons and assessments are online and use a combination of text and short videos, interactive animated exercises and links to websites to help you understand the concepts. This means it is essential you have access to reliable high-speed internet. You will also need a scientific (not graphing) calculator.



The only required text is the following workbook, an excellent source of exercises for practice. The pages needed to start are available within the course. From Unit 2 and on, however, you will need a workbook.

Chemistry 12: A Workbook For Students by James A. Hebden.

Adult Students: \$30 through our office (604-517-6191) or purchase direct from Western Campus (<https://www.westerncampus.ca/exclusive-to-wcr/hebden-chemistry/>).

NWSS Students: You will receive instructions for how to sign out a copy when you register. If you want your own copy to write in and keep, you will need to buy one.

Technical help can be found on our website (<https://newwestonlinelearning.ca/resources/>). Your teacher is accessible by email, but it is best to drop in during online Office hours for help. Schedule and access information for the online office are on the course Home Page.

Assessment

Your understanding is assessed through Module Tests (~60%) and assignment/project work (~40%). Along the way, quizzes provide a way to check your understanding and get feedback and help from your instructor. While all assessments are completed from home, be aware that you might be required to come to our supervised location to write a test. Ministry assessment and reporting information can be found at: <https://curriculum.gov.bc.ca/classroom-assessment>.

To Begin

Registration instructions are on our website. Once you have received your login information from our office, follow the instructions on the Home Page of the course.

Important: Students are expected to complete the first unit within 2 weeks of enrolling, to log in and make progress each week, and to finish their online course within a 4–5-month period of time. Please check in with your teacher if you find yourself needing additional time.