New Westminster Schools

New Westminster Online Learning School

Chemistry 11:

Course Description

This is a “toolbox” course introducing students to the language, computational skills, and foundational concepts of matter. It is a prerequisite for Chemistry 12.

Course Expectations

Students are expected to complete Module I within 3 weeks of enrolling, to log in and make progress each week, to finish the course within a 4–5-month period of time and to communicate with their teacher when they have questions or need additional time. They are expected to submit their own work, to cite sources when using the work of others and to follow the instructions for the use of assistive technologies for each assessment.

Enduring Understanding/Big Ideas

Students will focus on the following:

- Atoms and molecules are the building blocks of matter.
- The mole is a quantity used to make atoms and molecules measurable.
- Matter and energy are conserved in chemical reactions.
- Solubility within a solution is determined by the nature of the solute and the solvent.
- Organic chemistry and its applications have significant implications for human health, society, and the environment.

Specific Learning Outcomes

Curriculum details can be found at:
https://curriculum.gov.bc.ca/curriculum/science/11/chemistry.

Course Content

Unit 1	Introductory Concepts & Skills
Unit 2	Matter
Unit 3	Atoms & the Periodic Table
Unit 4	Names & Formulas
Unit 5	The Mole

New Westminster Schools

Unit 6	More About Formulas
Unit 7	Chemical Reactions
Unit 8	Stoichiometry
Unit 9	Solution Chemistry
Unit 10	Organic Chemistry

Student Learning Activities and Strategies

All materials, lessons, and assessments are online and use a combination of text, short videos, interactive animations, links to websites, and practice questions and exercises to help students understand the concepts. Now, while the materials are online, it will still be important for students to keep an organized binder with notes taken from text and video lessons, handouts they might want to print, as well as their work for questions and exercises.

Assessment

Student understanding is assessed through assignments, quizzes, conversations with the teacher, module tests and a Final Exam. Quizzes provide a way to check understanding and get feedback and help from the teacher. Most assessments can be completed from home, but **students are required to write the Final Exam at a supervised location**.

Evaluation

Your final mark is determined by the progress you have made in understanding key concepts and skills as demonstrated on assignment work (~40%), module tests (~30%) and the Final Exam (~30%).

Resources

All materials are online, so this means access to reliable high-speed internet is essential, and that students use a laptop, desktop, or Chromebook. No textbook or workbook is required.

A scientific (not graphing) calculator is required.