



PORT MOODY
SECONDARY
SCHOOL

Home of the
BLUES

300 Albert Street
Port Moody, BC V3H 2M5
School District 43 (Coquitlam)
Phone: 604.939.6656
Fax: 604.937.8057

A Tradition of Excellence

Chemistry 11 (IB) Course Outline First Assessment 2025

Teachers: Ms. Thong

Office: Rm. 306 (Chemistry Office)

Email: ithong@sd43.bc.ca

Mr. Won

Rm. 305 (Chemistry Office)

cwon@sd43.bc.ca

Objectives:

Chemistry 11 (IB) is an introductory portion of a two-year experimental science programme dealing with the basic concepts and skills in the science of chemistry.

Group 4 aims

Through studying biology, chemistry or physics, students should become aware of how scientists work and communicate with each other. While the scientific method may take on a wide variety of forms, it is the emphasis on a practical approach through experimental work that characterizes these subjects. The aims enable students, through the overarching theme of the Nature of Science, to:

1. develop conceptual understanding that allows connections to be made between different areas of the subject, and to other DP science subjects
2. acquire and apply a body of knowledge, methods, tools and techniques that characterize science
3. develop the ability to analyze, evaluate and synthesize scientific information and claims
4. develop the ability to approach unfamiliar situations with creativity and resilience
5. design and model solutions to local and global problems in a scientific context
6. develop an appreciation of the possibilities and limitations of science
7. develop technology skills in a scientific context
8. develop the ability to communicate and collaborate effectively
9. develop awareness of ethical, environmental, economic, cultural and social impact of science

Textbook:

Bylikin, S., Horner, G., Jimenez, E., & Tarcy, D. (2023). *Chemistry: Course companion*. Oxford University Press.

Syllabus:

<http://bit.ly/ibchemistryguide2025>

Topics:

Lab Safety
Science 10 Review
Tools for Chemistry
Mole concept
Atomic Structure
Periodicity

Stoichiometric Relationships
Chemical Bonding and Structure
Energetics/Thermochemistry
Gas Laws
Kinetics

Expectations:

This course meets every second day from September until June. To be successful in this course, you should plan to study regularly, regardless of upcoming tests. It is your responsibility to be on time for each class and arrive with all necessary equipment (pen, pencil, paper, calculator). As well, you are expected to complete all assignments and labs. If you are absent, you must bring a signed note or an email from your parent/guardian explaining your absence, and time will be given for you to catch up on missing assignments. Please refer to the **school policy regarding absenteeism**.

FLEX time is available Tuesdays – Fridays before block 1 in room 306. Use this time to ask questions and get extra help.

PMSS's **IB Academic Integrity Policy** is always expected to be followed. Please refer to it on the school's website, and make sure you understand all the expectations.

https://www.sd43.bc.ca/school/portmoody/ProgramsServices/IB/PMSS_IB_Policies/Pages/default.aspx#/=

- You are expected to work **on your own** to complete all assignments. Lab partners may collect data together, but the presenting of the data, calculations, discussions and conclusions in labs write ups must be completed **independently**. Working together constitutes academic dishonesty and is a form of plagiarism that is not acceptable.
- Plagiarism is not tolerated in any form. You may not use material from the internet, or print material, without referencing. Work done by a tutor and previous course work from a friend is considered plagiarism. Any work completed under these conditions will receive a zero, no exceptions.
- All lab work and assignments must be handed in on time, at the beginning of class. If something needs to be printed, it must be done ahead of time, and be ready to hand in at the start of class.

Evaluation:

Students will be assessed through a variety of assignments, labs, and tests. Each topic will be weighted to reflect the number of learning outcomes that the students must meet. The final IB grade will be on a 7-point scale, which will reflect only their performance on their exams in May of grade 12 and their internal assessment.

For report cards, the current estimated IB grades will be converted to a percentage based on the following chart, which has been approved by the BC Ministry of Education and adopted by BCAIBWS. Students will receive a comment on their report card that shows their anticipated IB grade in the course.

Current Estimated IB grade	Report Card %
7	96-100
6	90-95
5	86-89
4	76-85
3	70-75
2	50-69
1	0-49

Class marks:

Class work and Laboratory work

1. *Homework questions*

Students are expected to complete all assigned homework questions. These will either be checked in class, self-marked, or quizzed as an open-book *silent drill*. Irregularity in students' homework completion will be reflected in their work habit marks.

2. *Lab activities*

Lab reports will be assigned throughout this course. Lab reports must follow the accepted IB format to receive full marks. It is expected that students complete all lab questions, calculations and conclusions on their own. Lab work is essential to give students the hands-on skills and applications of the concepts they are learning in class, as well as understand procedures to prepare for their Internal Assessment in grade 12.

Tests and Quizzes

Quizzes will be used to assess students' progress within a unit of study. Tests will occur at appropriate points during the course to evaluate students' understanding of the previous unit. Students will be notified before all forthcoming tests.

Assessment Objectives

There are four assessment objectives for the DP chemistry course. Having followed the chemistry course, students are expected to demonstrate the following assessment objectives.

Assessment objective 1

Demonstrate knowledge of:

- terminology, facts and concepts
- skills, techniques and methodologies.

Assessment objective 3

Analyse, evaluate, and synthesize:

- experimental procedures
- primary and secondary data
- trends, patterns and predictions.

Assessment objective 2

Understand and apply knowledge of:

- terminology and concepts
- skills, techniques and methodologies.

Assessment objective 4

Demonstrate the application of skills necessary to carry out insightful and ethical investigations.

