



**Norkam Senior Secondary School**  
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**Room 105**



## Chemistry 11 Course Outline

Course Objectives & Content: In Chemistry 11, we will use laboratory activities and problem solving to discover different types of chemical reactions and the mole concept. We will explore the properties, molecular structure and naming of a wide variety of chemical compounds, and investigate trends in the periodic table using atomic structure to explain behavior of matter. We will also use mathematical operations to convert between the number of moles, number of molecules, mass, volume, and concentration of various chemical compounds.

Topics:

<b>Unit</b>	<b>Topic</b>
<b>1</b>	<b>Safety in the Chemistry Lab</b>
<b>2</b>	<b>Measurement, Units, Sig Figs</b>
<b>3</b>	<b>Chemical Formulas</b>
<b>4</b>	<b>The Mole</b>
<b>5</b>	<b>Chem Reactions and Stoichiometry</b>
<b>6</b>	<b>Atoms and Periodic Table</b>
<b>7</b>	<b>Solution Chemistry</b>
<b>8</b>	<b>Organic Chemistry</b>
<b>9</b>	<b>Review</b>

Chemistry Curriculum:

<https://curriculum.gov.bc.ca/curriculum/science/11/chemistry>

**Core Competencies:** The core competencies along with literacy and numeracy foundations and essential content and concepts are at the centre of the redesign of curriculum and assessment. Core competencies are sets of intellectual, personal, and social and emotional proficiencies that all students need to develop in order to engage in deep learning and life-long learning. Through provincial consultation, three core competencies were identified.

**Communication:** The communication competency encompasses the set of abilities that students use to impart and exchange information, experiences and ideas, to explore the world around them, and to understand and effectively engage in the use of digital media.

**Thinking:** The thinking competency encompasses the knowledge, skills and processes we associate with intellectual development. It is through their competency as thinkers that students take subject-specific concepts and content and transform them into a new understanding. Thinking competence includes specific thinking skills as well as habits of mind, and metacognitive awareness.

**Personal and Social:** Personal and social competency is the set of abilities that relate to students' identity in the world, both as individuals and as members of their community and society. Personal and social competency encompasses the abilities students need to thrive as individuals, to understand and care about themselves and others, and to find and achieve their purposes in the world.

**Textbook:** Hebden: Chemistry 11. A Workbook for Students

### **Evaluation:**

For each term :

Assignments / Projects/Labs	50%
Tests and Quizzes	30%
Final Exam	20%

**Attendance:** When absent it is the student's responsibility to make up the missed work.

**To find out what was missed:**

1. Contact a friend that is in your class
2. See Google classroom

**Assignments:** All assignments are to be handed in on the Due Date. Any late assignments will be accepted until the return of the marked assignments. After this, alternate assignments may be given.

**Classroom Expectations:**

- Come prepared to class (binder, paper, pencil, eraser, calculator, textbook and calculator).
- Be on time, IN YOUR DESK when the bell rings
- ELECTRONIC DEVICES will be out of sight during class time except with teacher permission.
- No food in the Science room. Drinks are allowed but no sharing.
- Contribute to a positive learning environment by respecting classmates and allowing the teacher to teach.
- Take responsibility for YOUR learning.

Chemistry 11 is a demanding course. You should be prepared to do homework every day to keep up with labs, assignments and readings. Daily review of course material at home is essential for success. You need to bring all necessary classroom supplies and textbook to class every day.

**Need Help?** Mr Bubela is available most days at lunch in room 105. I rarely leave my room at lunch.