

**Teacher:** Marie-Eve Owen

**Class schedule:** Term 2 Block 4

**Teacher contact:** [marie-eve.owen@yesnet.yk.ca](mailto:marie-eve.owen@yesnet.yk.ca) or tel. (867) 667-8044, ext. 141

**Website:** [www.m-eowen.weebly.com](http://www.m-eowen.weebly.com)

**Textbook:** Hebden Chemistry 12 Workbook (Hebden)

**Supplies:** Binder, lined paper, pencil, pen, eraser, ruler, scientific calculator

**Recommended:** Mastery of Pre-calculus & Chemistry 11

**Student Behaviour:** Students will:

- Follow all laboratory safety rules and precautions.
- Arrive on time and attend regularly.
- Be responsible for any missed material.
- Come prepared. Cell phones are never to be used as a calculator.
- Be respectful towards themselves, other students, teachers, the school, and equipment.
- Participate, ask questions, share knowledge with others.

**Evaluation:** Students will:

- Demonstrate understanding of the curricular content
- Demonstrate the ability to perform the curricular competencies
  - 10 Quizzes 10%
  - 6 Tests 45%
  - 3 Projects/assignments/labs 30%
  - Final Exam 15%

**Curricular Content:** Hebden, Chemistry 12: A Workbook for Students

Unit 0: Introduction and Safety	1 week
Unit 1: Reaction Kinetics	3 weeks
Unit 2: Equilibrium	3 weeks
Unit 3: Solutions and Equilibrium	3 weeks
Unit 4: Acids, Bases and Salts	3 weeks
Unit 5: Oxidation-Reduction	3 weeks
Unit Review: BC Exam prep, Brain Genie, Quiz-me app	2 weeks

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**Absences:** It is expected that in the case of absence, the student is responsible for catching up missed material online. The course website contains ALL worksheets, notes, videos and answer keys needed to make up absences from offsite. If a student misses a quiz, test or lab due to an excused absence validated by a parent or guardian, it is the student's responsibility to re-schedule the missed assessment as soon as possible outside regular class hours. <https://m-eowen.weebly.com/chemistry-12.html>

**Plagiarism and cheating** will result in an automatic zero without opportunity to re-do.

**Big Ideas:** By the end of this course students will be expected understand the following big ideas: • Atoms and molecules are the fundamental building blocks of matter

- 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 and reduction are complementary processes that involve the gain or loss of electrons.

**Curricular Competencies:** By the end of this course students are expected to be able to do the following:

- Questioning and predicting (purpose/hypothesis)
- Planning and conducting (procedure, lab skills, observations)
- Processing and analyzing data and information (analysis questions, graphing)
- Evaluating (drawing conclusions, identifying sources of error and ideas for further experimentation)
- Applying and innovating (Use curricular content to solve problems, design projects etc.)
- Communicating (Use curricular content to express your opinion, create models, develop an argument, or reflect on personal experiences, and worldviews)

**Core Competencies:** The following core competencies will be incorporated into the delivery of this course:

- Communication
- Creative and critical thinking
- Positive personal identity, awareness and responsibility
- Positive social and cultural identity and responsibility

For more detailed information visit: <https://curriculum.gov.bc.ca>

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