

Lambton Kent Composite School



Course: Grade 12 Chemistry

Course Code: SCH 4U

Grade: 12

Course Type: University Prep

Credit Value: 1

Prerequisite: SCH3U

Curriculum Document: The Ontario Curriculum, Grades 11 and 12, Science – 2008

Textbook: Chemistry 12

Course Description: This course enables students to deepen their understanding of chemistry through the study of organic chemistry, energy changes and rates of reaction, chemical systems and equilibrium, electrochemistry, and atomic and molecular structure. Students will further develop problem solving and laboratory skills as they investigate chemical processes, at the same time refining their ability to communicate scientific information. Emphasis will be placed on the importance of chemistry in daily life, and on evaluating the impact of chemical technology on the environment.

Required Materials: Students are expected to come to class every day prepared with:

3 ring binder

lined paper

textbook

eraser

ruler

calculator

pencils/pens

pencil crayons

Units of Study:

1. Electrochemistry
2. Energy Changes and Rates of Reactions
3. Chemical Systems and Equilibrium
4. Structure and Properties
5. Organic Chemistry

In addition to the units of study, students will also develop **Scientific Investigation Skills** like initiating and planning, performing and recording, analyzing and interpreting, and communicating.

Late Policy: Students are expected to submit all assignments within the time frame specified. While teachers will consider extenuating circumstances, late students are subject to mark deductions. If an assignment is late, a penalty of 10% per school day will be deducted, up to a maximum of 50%. Once assignments have been returned to the class, late submissions may receive a mark of **zero**.

Evaluation: A student's final grade in the course will be determined as follows:

70 % TERM MARK This will include a variety of evaluations such as tests, quizzes, assignments and presentations and will be marked according to the following weightings.

Knowledge and Understanding	30%
Communication	15%

Application	25%
Thinking and Inquiry	30%

30 % SUMMATIVE EVALUATION This will be a final examination based on all material covered in the course.

Student Expectations: In order to be successful in this course all students must:

1. Attend class every day:

If you are absent it is YOUR responsibility to obtain notes from a classmate, catch up on missed work, find out about any upcoming evaluations, and see the teacher if you need assistance.

2. Arrive to class prepared to work physically and mentally:

Class time is precious and should not be wasted going to your locker or to the washroom. Make sure you bring the required materials, use the washroom during breaks and are in your seat ready to work when the bell rings.

3. Complete and check all homework:

Homework and assignments are crucial to your success in science because they help to solidify and check your understanding of the topic. Homework and assignments should be completed on the day they are assigned and will be checked, taken up or discussed in class. If you have difficulty with the homework extra help is always available but YOU have to ASK. Plagiarism will result in a mark of zero.

4. Make arrangements for any missed tests/quizzes.

If you know you are going to be away on the day of a test (sport/club etc) make sure you make arrangements with the teacher to write the test at an alternate time. For unexpected absences, see the teacher BEFORE CLASS on the day you are back at school. Tests or quizzes missed due to TRUANCY will result in a mark of ZERO.

5. IPAD Policy:

In this class students will use their IPAD in a variety of ways including use of e-textbook, online resources, presentation software and graphing calculator apps. During class time it is expected that students will not use IPAD's for **games** or **music**. Failure to adhere to this policy will result in removal of IPAD from student use. While the IPAD contains several good calculators and graphing software programs, students will **not** generally be allowed to use IPADs during **tests or quizzes**.

I understand the above expectations and I am ready to be successful in science:

STUDENT'S SIGNATURE

PARENT'S SIGNATURE

