



COURSE DETAILS

Course Code: 0122
Course Name: CHEM30S
Credit Value: 1.0
Prerequisite: Science 20F

CONTACT INFORMATION

Room 14 McCreary School
MS Teams: Chem 30
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COURSE TECHNOLOGY

Office 365
MS Teams: Chem 30

SUPPLIES

- 2" – 3 ring binder
- Loose leaf
- Scientific calculator
- Ruler
- Pens
- Pencils
- Erasers
- Highlighters

**ONCE YOU HAVE READ
THROUGH THIS COURSE
OUTLINE WITH YOUR CHILD
PLEASE SIGN
AND RETURN IT TO THE SCHOOL.**

Welcome to

McCreary

Unit 1: Review and Refresh

- Drawing atoms
- Ion formation
- Bonding
- Chemical formulas
- The Periodic Table

Unit 2: Properties of Matter

- Chemical and physical properties
- States of matter
- Changes of state
- Kinetic Molecular Model

Unit 3: Chemical Reactions

- Reaction types
- Balance equations
- Mole calculations
- Stoichiometry

Unit 4: Solutions

- Types of solutions
- Factors affecting solubility
- Concentration and precipitation

Unit 5: Gases and the Atmosphere

- Earth's atmosphere
- Measuring pressure
- Gas Laws
- Applications of Gases

Unit 6: Organic Chemistry

- Aliphatic hydrocarbons
- Aromatic hydrocarbons
- Alcohols, acids and esters

UNIFYING CONCEPTS & GENERAL OUTCOMES

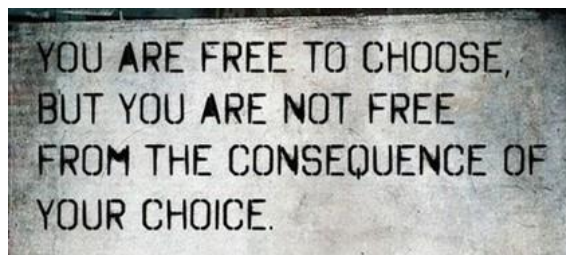
It is hoped that science education will:

- ✓ Encourage students at all levels to develop a rational sense of wonder and curiosity about scientific and technological endeavours
- ✓ Enable students to use science and technology to acquire new knowledge and to solve problems, so they may improve the quality of their own lives and the lives of others
- ✓ Prepare students to address science-related societal, economic, ethical, and environmental issues critically
- ✓ Provide students with a proficiency in science that creates opportunities for them to pursue progressively higher levels of advanced study, prepares them for science-related occupations, and engages them in science-related activities appropriate to their interests and abilities
- ✓ Develop in students of varying aptitudes and interests a knowledge of the wide variety of careers related to science, technology, and support for the natural and human environments

RULES & EXPECTATIONS

➤ Daily Classroom Expectations

Show up to class on time, with all your supplies, and use class time effectively. Take responsibility for your learning by completing all assigned work and being proactive rather than reactive.



➤ Technology in the Classroom

Students are encouraged to bring their school provided laptop with them to school every day. Cell phones will not be permitted during class time. Improper use of technology may result in a loss of certain privileges.

➤ Student Lates & Absences

Students who are late for class are asked to come in quietly without causing a disruption. Students who make a habit out of being late may not be allowed into the room if class has already begun.

If you are absent, YOU are responsible for finding out what you missed and making up all missed work. If you have an excused absence for the day of a test, please make arrangements to write it the day you return to school. If you skip a test or quiz you will receive a zero.

➤ Academic Dishonesty

Academic dishonesty including (but not limited to) inappropriate collaboration, cheating, or plagiarism is a severe offence and will be dealt with according to the policy outlined in the school handbook.

➤ Extra help

Arrangements can be made for in person extra help before or after school or during lunch hour. Students can also ask for clarification or feedback via email, MS Teams chat or discussion post, or schedule a Teams meeting.

ASSESSMENT

➤ Homework

This course has a lot of content. We will do our best to cover as much as we can in class, but you will inevitably end up with homework. You won't have homework every night, but when it is assigned it is expected to be completed on time. In order to get the greatest benefit from scheduled direct instruction, students need to be prepared, which means having assigned work completed.



➤ Assignments

A lot of the work students complete will not be graded, but that does not mean that it's not important. These practice opportunities are meant to help both the student and the teacher assess whether or not the student has developed an appropriate level of understanding prior to being given a summative assessment which will contribute to the final grade.

➤ Labs

Students are expected to follow all safety procedures during lab days. Students will be assessed based on their ability to perform lab procedures safely and accurately. They will also be assessed based on their data, observations and analysis. Students who do not follow lab expectations may be removed from the lab and therefore receive a zero.

➤ Incomplete and Late Work

Work is to be completed on time and to the best of the student's ability. Late or missing assignments will be penalized as outlined in the school student handbook, "Upon teacher discretion a maximum of 5% may be deducted for every day the assignment is not turned in. If the assignment is not turned in after two weeks or at the start of a new unit, the assignment will receive a mark of zero."

➤ Quizzes

Quizzes will take place frequently to encourage students to stay up-to-date on course materials. Students will not be allowed a personalized study sheet for quizzes. If formulas are required for the quiz a standard formula sheet will be provided.

➤ Tests

There will be 6 tests throughout the semester. A standard periodic table and formula sheet will be provided for each test.

➤ Test Re-writes

A student may request a retest for ONE of the 6 tests. Re-writes will take place during the final week of class before the exam. If a re-write is done, the new mark replaces the old mark (for better or worse).



➤ Final Exam

All students will be required to write the final exam at the end of January. The final exam is worth 30% of the student's overall grade. A standard periodic table and formula sheet will be provided for the exam.

| Assessment Category | Assessment Item | Item Weight | Category Weight |
|---|---|--------------------------|-----------------|
| Unit 1 Review & Refresh | Think-Pair-Share Periodic Table Quiz Names, Formulas and Balancing Quiz Test | 15% 24% 24% 37% | 10% |
| Unit 2 Properties of Matter | Phase Change Lab Indicators of a Chemical Reaction Lab Specific and Latent Heat Quiz Test | 21% 21% 21% 37% | 10% |
| Unit 3 Chemical Reactions | Mole Conversions Quiz Stoichiometry Quiz Stoichiometry Lab Test | 21% 21% 21% 37% | 10% |
| Unit 4 Solutions | Vocabulary Word Cycle Saturated Solutions Lab Solubility and Molarity Quiz Test | 21% 21% 21% 37% | 10% |
| Unit 5 Gases and the Atmosphere | Egg and the Milk Bottle Experiment Cartesian Divers Activity Gas Laws Quiz Test | 21% 21% 21% 37% | 10% |
| Unit 6 Organic Chemistry | Hydrocarbon Quiz Halocarbons, Alcohols and Acids Quiz Esters Lab Test | 21% 21% 21% 37% | 10% |
| Gases & The Atmosphere Project | This will be a full class project, where each student contributes a piece to the final product. The class will then coordinate all of the pieces to create one cohesive presentation. | 100% | 10% |
| Final Exam | The final exam will take place in January. The details of the exam will be decided at a later date. | 100% | 30% |

Behaviour Assessment

- **Personal Management Skills**
Self-monitors, organized, contributes positively and takes responsibility for work completion.
- **Active Participation in Learning**
Participates actively, is curious, sets learning goals, self-assesses and uses feedback for improvement.
- **Social Responsibility**
Contributes to making the classroom a positive, safe and caring environment.

Late Assignment Policy – Grades 7-12

McCreary School's policy for late assignments was developed in accordance with the Provincial Assessment Policy.

The guidelines for late assignments are as follows:

1. Teachers will set and communicate reasonable timelines for assignments.
2. Teachers will share timelines and reminders with students through various formats (ex. course outline, email, post in classroom, etc.).
3. Teachers will assist students to meet timelines – monitor progress, check-ins.
4. Students who struggle will require additional support from the teacher.
5. Extensions will be granted at the teacher's discretion, for valid and legitimate reasons only (ex. illness).
6. Teachers will communicate with parents or set up parent/teacher/student conferences to discuss late assignments.
7. Teachers will make an arrangement with student to complete work.
8. Teachers will create alternative assignments for diverse learning needs.

Where the above guidelines have been followed and assignments are not handed in by the given due date, a deduction in marks will apply.

Upon teacher discretion a maximum of 5% may be deducted for every day the assignment is not turned in. If the assignment is not turned in after two weeks or at the start of a new unit, the assignment will receive a mark of zero.