



Chemistry 20
Mrs. Burzminski
Room 146

Google Classroom: Code: **Period 5: g42lp24y**

Teacher Email: brooklynburzminski@prrd8.ca

Come Prepared! Each student will be required to have a *pencil, notebook, scientific calculator* (phones not permitted), and a **charged** device for each class.

Textbook: Chemistry (Alberta 20-30) - Nelson

Outcome Goals

Welcome to Chemistry 20! This course is presented through the use of laboratory activities, research and assignments. A great deal of emphasis is placed on students taking part in their own education and developing good decision-making skills. This is an academic course designed to challenge your critical thinking and problem-solving abilities, while preparing you for future studies in science and beyond.

Course Overview

1. **Review Science 10**

2. **Unit 1: The Diversity of Matter and Chemical Bonding (20%)**

The major focus of this unit is to relate theories about bonding to the properties of matter and to develop explanations and descriptions of structure and bonding through scientific models. You will learn about the diversity of matter through the investigation of ionic compounds and molecular substances.

3. **Unit 2: Gases (16%)**

You will expand your knowledge of the nature of matter through the investigation of the properties and behavior of gases. You will learn about how gases behave according to the various gas laws.

4. **Unit 3: Solutions (16%)**

You will gain insight into the nature of matter through an investigation of the properties and behavior of solutions. You will learn what solutions are, how to calculate and manipulate solution concentrations, how to create a standard solution and dilute it, and what happens when solutions react with other substances

5. Unit 4: Acids and Bases (16%)

This is an extension of unit 3 and you will learn about the properties and behavior of acids and bases. You will understand what makes them different from other types of solutions, how to create an acid or a base, and how to calculate their concentrations, pH, and pOH

6. Unit 5: Quantitative Relationships in Chemical Changes (Stoichiometry) (32%)

You will focus on using mathematics to predict quantities of substances consumed or produced in a chemical equation. You will learn more details of what actually happens during a chemical reaction and how you can use the stoichiometric process to perform a titration to determine the unknown concentration of a substance.

7. Final Exam Review

Assessment

- Formative Assessment: Formative assessments occur during the learning process and provide feedback to the teacher and student on where and how to help improve learning. *Formative assessments are not for marks.*

- Summative Assessment: Summative assessments summarize learning and student achievement and occur after significant periods of learning (ie. a unit). Summative assessments are accumulated, weighted, and averaged to generate the student *grade.*

Grade Calculation

Assignments/Labs	35%
Quizzes	15%
Unit Tests	25%
Final Exam	25%

Expectations

- Students are expected to *come to class on time and be prepared to work*. Be considerate!
- Food/drink is not allowed in the laboratory
- Office Hours: I can be available before school & after school. The best time to get help is during TAG.
- Failure to follow classroom routine will result in verbal warnings and detentions.
- If you have a concern, please talk to me. I will treat you with respect. I expect the same of you, and will not tolerate anything less.

Absences

It is important that assignments are completed by the given due date, to assist the teacher in providing the student with timely feedback to help them improve.

- If you are absent (sick, etc.) you must communicate with me and make arrangements for assignment completion. Google Classroom submission can be completed from any device on the due date. Hard copies can be handed in immediately upon your return.
- It is your responsibility to catch up on missed work, lessons, notes, etc. when you are absent - **be prepared and caught up when you return**.
- If an exam/quiz was given on the day of the absence, the students will be able to write if proper arrangements have been made. These are
 - Making prior arrangements with the teacher before the exam
 - The absence was for a legitimate reason and was verified through the office
 - School activity causes the absence and the student has notified the teacher *before* the activity has taken place
- If proper arrangements are made, the student will write the exam on the *day of return*
- Exam/quiz absences will be required to be written OUTSIDE of class time (spare, lunch, after school)
- ★ Make up assignments & rewrites will **not** be an option in this course. If you work diligently the first time, there will be no need for end of semester extra credit requests.

Cell Phone/Headphone Policy

In order to create a distraction free environment in which students are able to learn to their best capacity, Prairie Rose School Division has developed procedures (in regards to the New Ministerial Order) for the use of personal mobile devices in the classroom. During class time **personal devices (i.e. cell phones) are expected to be powered down and in your bag or locker at all times.** Headphones are not to be used during class time, unless otherwise instructed. These policies are in place to keep our classroom a place of learning and to remain respectful of others' learning as well.

Respect and Integrity

Our classroom is to be a safe and comfortable space for everyone. You are expected to behave respectfully and with integrity. This includes respect for others, yourself, the classroom, and supplies. In turn, you will be respected and trusted by others.

Put downs of any kind to yourself or others, derogatory language, and disrespectful actions and attitudes will NOT be tolerated.