

Student Name: \_\_\_\_\_ Date: \_\_\_\_\_

# 40S Chemistry

## Course Syllabus 2019-2020

**Instructor:** Mr. M. Bertram  
**Room:** Lab 110

**email:** mbertram@flbsd.mb.ca  
**Website:** <http://vcichemistry.weebly.com/>

**Materials Needed:** Scientific calculator, loose leaf pages/3-ring binder

### Enduring Understandings

- Ionic compounds should be in an aqueous state to react.
- Some ionic aqueous compounds will form a precipitate, gas, water or not react.
- Increase in entropy and decrease in enthalpy drive all reactions.
- Redox reactions have practical implications to aqueous reactions.
- Each element has its own set of unique characteristics that identify it.
- The periodic table has trends, patterns, and models the structure of elements.
- Nuclear charge and electron shielding effect determine the trends and patterns on the periodic table, as well as electron configuration.
- Chemical reactions can occur at different rates, or not at all.
- A variety of factors can affect the rate of a reaction.
- All chemical reactions involve a change in energy.
- Chemical reactions will establish an equilibrium or go to completion.
- Chemical equilibrium will be influenced by a variety of factors.
- Equilibrium can be quantified.
- Acids and bases have identifiable characteristics (strong/weak, conc./dilute).
- Acids and bases can be defined in various ways).
- Acid--base equilibrium systems are found in the environment and biological systems.
- Acid--base reactions can be quantified experimentally.
- Spontaneous redox reactions involve electron transfer.
- Electrons travel from high potential to low potential resulting in a physical change.

### Evaluation Breakdown

**Term Work:** 70%

- Tests
- Quizzes
- Lab Reports
- Construct Pen and Paper and Electronic Graphs
- Research Report
- Visual Display
- Class Presentation
- Peer and Self-Evaluation
- Lab Skills Observation
- Student Demonstration
- Assignment Completion
- Student/Teacher Interviews

**Final Summative Exam:** 30%

## Attendance Expectations

**We appreciate parents contacting the school office if their children are going to miss class.**

Students returning from absences are generally expected to write missed tests at noon hour on their first day back unless specific circumstances require a different plan.

## Assignment Expectations

Time spent outside of class to complete assignments is expected in this course.

### Late Assignments:

Completing assigned work on time is an important habit.

- Assignments are due at the start of the period on the scheduled day.
- Please see the *Bear Book* for VCI's late assignment policy details.

### Incomplete Assignments:

Incomplete assignments negatively impact student learning.

- Students with incomplete assignments may be required to complete them during spare periods or over the noon hour.
- Prelabs must be complete on time as a condition to participate in lab activities.
- Please see the *Bear Book* for VCI's incomplete assignment policy details.

### Plagiarism:

Submitting work done by others and claiming that it is your own is academically dishonest. Please see the *Bear Book* for VCI's plagiarism policy details.

## Electronic Device Expectations

Cell phones, tablets and computers can be excellent learning tools in the classroom. Their misuse can be a significant distraction for students.

To encourage their acceptable use in Lab 110, electronic devices:

- Are placed on **Airplane Mode** unless otherwise instructed.
- Are placed **face down** on the student's desk until otherwise instructed.

### First Offense:

The device is handed to the teacher for the remainder of class.

### Second Offense:

The device is handed to the teacher and will be forwarded to the Main Office. Additional consequences as outlined by school administration may be imposed.

## Behavior Expectations:

### 1. BE PREPARED

- Bring supplies/assignments to class.

### 2. BE COURTEOUS

- Face the front of the room.
- Pay attention/avoid distracting others.
- Keep food, drinks and gum away from the classroom.

### 3. BE RESPECTFUL

- Respect school rules and the rights, feelings and property of others.

### 4. BE RESPONSIBLE

- Arrive on time.
- Be in your assigned seat when class begins.
- Hand in assignments on time.
- Work on Chemistry in Chemistry class.

### 5. SHOW HONESTY AND INTEGRITY

- Do your own work on tests, labs and assignments.
- Do your share when working in groups.
- Site all references.

## Please Sign and Return

I am excited about the new semester and look forward to working with your child. Please contact me whenever you have questions or concerns.

**Please sign the attached *40S Chemistry Communication Information* form indicating that your child has shared this document with you.**

The form also outlines your preferred means to receive contact from me should the need arise during the semester.

Thank you!

Scanning this QR Code with your smart device code reader will take you directly to the VCI Chemistry Website!

