**Chemistry 12 (CH 12) - Mr. Momeyer**

**Materials:** 2 " or larger, loose-leaf binder with dividers (one for each section)

 Clear plastic sleeve (to hold your Periodic table)

 Plenty of lined paper (you're going to need it!!!)

 Metric graph paper

 Scientific calculator (don't leave home without it!)

 A Coloured highlighter

**Course Content:**

Chemistry is the science that deals with the properties and reactions of materials. It is concerned with the identification, characterization, and transformations of matter, and with the energy changes accompanying these transformations. As such, it makes an important contribution to our ability to:

1. **Comprehend the natural environment**
Awareness of the properties and interactions of various forms of matter provides insight into many natural processes, such as the chemical reactions that keep you alive.
2. **Employ a variety of technological processes and recognize the potential consequences of their use**Techniques of chemistry and the products of chemical industry are extensively used in many fields, including food preparation and processing, health care, electronics, printing, and the manufacture of a variety of goods, including textiles, paper, paints, plastics, ceramics, and metal products. At the same time, chemical analysis helps us recognize and assess the environmental and human costs of using particular technologies.
3. **Understand various other pure and applied sciences, as well as the nature of scientific inquiry**A core of fundamental chemical knowledge is central to an understanding of other science disciplines and applied sciences (e.g., biology, geology, physics, health sciences, pharmacology, chemical engineering, agriculture). A knowledge of chemistry also contributes to an understanding of the strengths and limitations of science and the relationships among science, technology, and society.

Through the study of chemistry, we will develop an understanding and appreciation of chemistry in the world around us and how it affects our everyday lives.

**The learning outcomes for Chemistry 12 are grouped under six curriculum organizers:**

1. **Brief review of Chem 11**
2. **Reaction Kinetics**
3. **Equilibrium**
4. **Solubility**
5. **Acid Base Equilibrium!!! (Long Unit)**
6. **Electrochemistry**

**Evaluation: (T1 = 25%, T2 = 25%, T3 = 30%, Final = 20%)**

 Coursework:

 Assignments / Labs 25 %

 Tests / Quizzes 55 %

 Final Exam 20 %

**General Information:**

* Late assignment deductions - 10 % first day, 50% of mark maximum after that.
* It is EXTREMELY difficult to make up missed tests, quizzes, and labs. If you do miss a lab, test or quiz, you will be required to make it up after school, or during a spare block. If you have to do it during class time, and therefore miss the material of that day, this further compounds the problem. Just don’t miss class, and you’ll be fine.
* If you miss something it better be of the utmost importance, if you are sick you must have a **note from a doctor** or your parents can email me during your absence at jmomeyer@vsb.bc.ca

**How to Succeed in this Course:**

* **Attend all Classes**!!! - If you have difficulty attending class, then find another course to register in. There is a strong correlation between attendance and grades. This is especially important in summer school
* **Be prepared to work**!!! - You can expect a minimum of an hour to an hour and a half of homework a night - sometimes less, sometimes more. Those who do well are those who accept this and are prepared to make this commitment.
* **Become an active student** - there are many ways in which you can become an active student.

- **Ask questions**. Don't worry, I won't bite. When you are unsure about something, raise your hand and ask. 9 times out of 10, the other students have the same question

* Teach others in the class. The best way to learn is to teach someone else.
* Take copious notes, not just from me but on your own, add to your notes as we go over things in class
* Use the Web. There are a lot of resources out there, use them!
* The website; check it often [www.mrmo.yolasite.com](file:///C%3A%5CUsers%5CJaymo%5CDocuments%5CSchool%5CTeaching%20Stuff%5CScience%5CChemistry%5CChem%2012%5Cwww.mrmo.yolasite.com)
* ENJOY -

**Dear Parents/Guardians:**

A science class room is a laboratory with equipments that needs to be handled with care and caution. Students are expected to act maturely and responsibly for their own safety as well as the safety of their peers.

Please go over the outline that your student has brought home and sign the at the bottom. If you don’t understand any part of it, or have any questions please email me at jmomeyer@vsb.bc.ca

In lab experiments we use many different materials including food. Please list any allergies your child has?

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Contact lenses can sometimes be a hazard during a lab. Fumes can get between the lens and the eye causing damage.

Does your child wear contact lenses? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

If yes, it is recommended to wear glasses during a lab experiment.

I, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, have read and understood the course expectations.

(Print full name of student)

Signature of student \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Course: \_\_\_\_\_\_\_\_\_\_\_\_

Signature of parent/guardian: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Block: \_\_\_\_\_\_\_\_\_\_\_\_\_

Email of parent/guardian: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Day time contact phone number of parent/guardian: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Sincerely,

Mr. J. Momeyer

Room A310

Sir Winston Churchill Secondary