

Mr Gary DeViller

2009 / 2010



BARRINGTON MUNICIPAL HIGH SCHOOL

# Welcome to Chemistry 12

## Chemistry 12

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The following topics will be covered:

**Unit 1: Thermochemistry:** Endo and exothermic reactions. Balancing equations, including energy amounts and Hess's Law.

**Unit 2: Solutions:** Solubility and concentration. Solutions, solutes, solvents. Precipitates.

**Unit 3: Chemical Kinetics:** Rates and properties of chemical reactions. Collision theory. Reaction mechanisms. Catalysts.

**Unit 4: Chemical Equilibrium:** Forward and reverse reactions. Solubility and equilibrium. Le Chatelier's Principle and Keq.

**Unit 5: Acids and Bases:** Properties. Types of Reactions. Titrations and indicators. Dynamic equilibrium.

**Unit 6: Oxidation and reduction.** Half reactions. Electrochemical and electrolytic cells. Standard reduction potentials.

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## Expectations

I expect that all students be respectful to each other and all that is around them. They should always be on their best behaviour, on time, and prepared for class with the appropriate materials. Students should not have to travel back and forth to their locker. During class, attentiveness, participation, productivity, and being on task are of utmost importance. Being quiet during instruction is essential. Asking questions is always encouraged. **Students should strive to become self-motivated and self-directed learners.**

Please, no food or drinks in the classroom other than water. If you need to leave the room, obtain permission. When announcements are made, listen quietly. If a test, quiz, assignment or project was missed during absence, please bring me a note from home and be prepared to write the test on your 1st day back. Copying homework assignments is unacceptable.

**Frequent review and completion of homework are critical elements of success in this course.** I expect effort on all homework. Ample time is given in class to ensure you understand all the questions before you go home. Review frequently, even if for only 10 minutes at a time.

If you have any questions, you may contact me at school.

## What you will need

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A binder, loose leaves, or scribblers, pencils and erasers and a *scientific* calculator.

Text book: McGraw-Hill Ryerson Chemistry

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### How you will be marked:

Tests and Quizzes	50%
Labs, Homework and Project	20%
Exam	30%

### Special points of interest:

- *If I schedule a test when you already have one, let me know so that I may possibly make a change.*
- *Click on the link of our school website for homework updates:*
- *<http://tcdsbstaff.ednet.ns.ca/devillg/a2/deviller/Personal.htm>*