Chemistry 11
FINAL REVIEW

Your FINAL will have 75 multiple choice questions and 25 short answers that will cover all the material that we have studied in chemistry 11. This final is worth 25% of your Year End mark in CHEMISTRY 11. The major topics that we have covered and where you can find them include:

- Safety and The new WHMIS Symbols - **Handouts and Notes Unit I text**
- Scientific Notation- **Handouts and Unit II Chemistry 11 text**
- Significant Digits- **Handouts and Unit II Chemistry 11 text**
- SI Base Units- **Handouts and Notes and Unit II Chemistry text**
- Multiples of Base Units (eg. kilo, centi, milli and micro)- **Handouts**
- Unit Conversions: single, multiple and metric- **Handouts and Notes**
- Density Calculations- **Handouts and Unit II Chemistry 11 text**
- Chemical vs. Physical properties + changes- **Handouts and Unit III**
- Matter - definitions, the matter classifications, and separating matter - **Handouts, notes and Unit III Chemistry 11 text**
- Writing Chemical Formulas, Naming Compounds and Naming Acids - **Handouts, notes and Unit IV Chemistry 11 text**
- Subatomic Particles, their definitions and the pre-quantum mechanic model's of the atom - **Notes, Handouts and Unit VIII Chemistry 11 text**
- Quantum Mechanics, Electron Configurations and Core Configurations- **Handouts, Notes and Unit VIII Chemistry 11 text**
- The trends in the Periodic Table: metallic character, atomic radii, ionic radii, and ionization energies- **Notes and Unit VIII Chemistry 11 text**
- The Periodic Table according to valence electrons (s,p,d and f orbitals) – **Notes and Handouts and UNIT VIII Chemistry 11 text**
- Families of the periodic table and their characteristics – **Notes and Unit VIII Chemistry 11 text**
- The Mole and Avogadro's number 6.02 X 10^{23} -**Handouts and Notes, Unit V Chemistry 11 text**
- Mole calculations- **Handouts, Notes and Unit V Chemistry 11 text**
- Volume of a gas (note: 22.4 L) at STP calculations - **Handouts and Notes and Unit V**
- Percent Composition calculations- **Handouts and Notes Unit V**
- Empirical and Molecular Formula calculations - **Handouts and Notes Unit V**

- MOLARITY-**Notes**, **Handouts and Unit V Chemistry 11 text**
- Dilution calculations- **Handouts and Notes and Unit V**: $M_I V_I = M_F V_F$
- CLASSIFYING CHEMICAL REACTIONS- decomposition, synthesis, single replacement, double replacement, neutralization, combustion, endothermic or exothermic- **Notes and Unit VI Chemistry 11 text**
- Balancing Chemical Equations-**Notes**, **Handouts and Unit VI Chemistry 11 text**
- STOICHIOMETRY calculations- **Notes, Handouts and Unit VII Chemistry 11 text**
- Limiting Reactants, Excess reactants- **Notes, Handouts and Unit VII Chemistry 11 text**
- SOLUTION CHEMISTRY- **Notes and Handouts Unit IX Chemistry 11 text**
- Solution terminology, polarity of molecules, solvation, conductivity of solutions, ionization/dissociation, calculating ion concentrations in solutions, acid-base terminology, titration calculations
- ORGANIC CHEMISTRY- **Notes and Handouts, Unit X Chemistry 11 text**
- Naming and drawing alkanes, alkenes and alkynes
- Naming and drawing using alkyls and alkyl halides
- Naming and drawing aromatic compounds
- Identifying the functional groups for: alcohols, aldehydes, ketones, ethers, organic acids, amines, amides and esters
- Naming and drawing: alcohols, organic acids, and esters

STUDY TIPS:
- make sure you have looked over past tests (during in-class review)
- Look over previously assigned review sheets for each unit
- Review notes/exercises given to you in class
- Create your own set of notes for each unit
- Complete the Chemistry 11 Final REVIEWS
- Do not stress
- Do not cram the night before
- Do your very best!!!

To Calculate your desired grade:

(**Desired X** % - ((**what you have**)(0.75)) = **n**

n ÷ 25 = **%** that you must score to achieve that grade

example: Desired goal is **73%** and you currently have **80%**

(**73** − ((**80**)(.75)) = **13**
13 ÷ 25 = 0.52 or **52%**
this student must score 52% on the final exam to maintain a B