Physics 112

Wednesday, March 20/19



- 1. Return Tomorrow -> SA: U1 S1&2
 (Vector and Graphical Analysis)
- 2. Questions? Worksheet Motion Problems
- 3. Check Rearranging UAM Equations
- 4. FA -Uniformly Accelerated Motion (K3.8) Complete for FA -Uniformly Accelerated Motion (K3.9) tomorrow.
- 5. Acceleration Due To Gravity
- 6. Table Acceleration Due To Gravity
- 7. The Rock
- 8. Freely Falling Bodies
- 9. Worksheet Objects in Free Fall

Physics 122 Wednesday, March 20/19

http://mvhs.nbed.nb.ca/

Potential Grad Meeting 11:30

1. Submit FAs and/or Justifications and LCs FA - Rel. Velocity (RV3.1) - Parallel Directions

FA -Rel. Velocity (RV3.2) - Perpendicular Directions: Boat

FA - Rel. Velocity (RV3.3) - Perpendicular Directions: Intersection

FA - 1D Explosion

FA - 1D Collision

FA - Type of 1D Collision

- 2. Worksheets 2D Collisions and Explosions (2)
- 3. FA 2D Collision

FA - 2D Explosion

4. FA - Relative Velocity and Collisions/Explosions

Science 122

Wednesday, March 20/19

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- 1. Questions?
 - Worksheet Archimedes' Principle

Worksheet - Extra Hydrostatic Problems *Diagram #14

Worksheet - Last Set

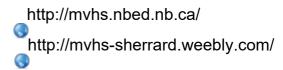
2. SA - Hydrostatics

Date: Tuesday, March 26/19

- 3. Hydrodynamics Fluids in Motion
- 4. Basic Types of Fluid Flow
- 5. Mass Flow Rates, Equation of Continuity and Volume Flow Rate
- 6. Worksheet Equation of Continuity and Bernoulli's Principle (Problems #50-55)
- 7. Ideal Fluid Flow
- 8. Bernoulli's Equation
- 9. Worksheet Equation of Continuity and Bernoulli's Equations

Science 10

Wednesday, March 20/19



- 1. Questions?
 - Worksheet #4: Ionic Compounds Containing Transition Elements
 - Worksheet #5: Ionic Compounds Summary
 - Worksheet Lots More Practice
- 2. FA Mixed Ionic Compounds
- 3. Worksheet Binary Molecular Compounds #1 and #2
- 4. FA Molecular Compounds
- 5. Ionic vs. Molecular Compounds
- 6. Mixed Ionic/Covalent Compound Naming #1
- 7. Review Naming Chemical Compounds #2
- 8. SA Chemistry #2 (Ions and Compounds) Topics
- 9. Review: SA Chemistry #2

Topics: SA - Chem #2

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- 1. atoms -> electrically neutral: $\#p^+ = \#e^-$
- 2. chemical names and symbols: elements and ions
- 3. periodic table of the elements: location of metals, nonmetals and metalloids
- 4. atomic number = number of protons
- 5. draw a Bohr-Rutherford diagram for an atom of an element
- 6. ions atoms that have gained or lost electrons
 - cations/positive ions/metallic ions
 - anions/negative ions/nonmetallic ions
 - be able to state number of protons, number of electrons and ion charges
- 7. draw a Bohr-Rutherford diagram for an ion of an element
- 8. ionic bond created by transfer of electrons
- 9. be able to identify monatomic ions, polyatomic ions and ions of multivalent metals
- 10. ionic compounds electrically neutral
- 11. be able to write the names of simple binary ionic compounds given their formulas and vice versa
- 12. be able to write the names of ionic compounds containing polyatomic ions given their formulas and vice versa
- 13. know roman numerals 1-10
- 14. be able to write the names of ionic compounds containing multivalent metals given their formulas and vice versa
- 15. be able to write the names of ionic compounds containing multivalent metals and polyatomic ions given their formulas and vice versa
- 16. covalent bond created as a result of the sharing of electron pairs
- 17. molecular compounds = covalent compounds = molecules
- 18. prefixes 1-10
- 19. homonuclear molecules: H₂, N₂, O₂, F₂, Cl₂, Br₂, I₂
- 20. special molecules: P₄, S₈, water, ammonia, hydrogen peroxide
- 21. be able to write the names of binary molecular compounds given their formulas and vice versa
- 22. identify ionic compounds and molecular compounds