

# Physics 112

Wednesday, March 20/19

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



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

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### 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 \(2\)](#)

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3. FA - 2D Collision
  - FA - 2D Explosion
4. FA - Relative Velocity and Collisions/Explosions

## Science 122

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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

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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
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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  $\rightarrow$  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:  $H_2$ ,  $N_2$ ,  $O_2$ ,  $F_2$ ,  $Cl_2$ ,  $Br_2$ ,  $I_2$
20. special molecules:  $P_4$ ,  $S_8$ , 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