Physics 112

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

Thursday, March 21/19

1. Return -> SA: U1 - S1&2
   (Vector and Graphical Analysis)

2. Submit/Return:
   FA - Uniformly Accelerated Motion (K3.8)
   FA - Uniformly Accelerated Motion (K3.9)

3. FA - Uniformly Accelerated Motion (K3.10)
   FA - Uniformly Accelerated Motion (K3.11)

4. Acceleration Due To Gravity

5. Table - Acceleration Due To Gravity

6. The Rock

7. Freely Falling Bodies

8. Worksheet - Objects in Free Fall

Physics 122

Thursday, March 21/19

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

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. Questions?
   Worksheets - 2D Collisions and Explosions (2)

3. FA - 2D Collision
   FA - 2D Explosion
   } Do at least one.

4. FA - Relative Velocity and Collisions/Explosions - Optional

5. SA - U1: S3&4 (Relative Velocity and Collisions/explosions)
   - Date: Thursday, March 28/19
   - Format: Problems Only
     - Relative Velocity (// Velocities)
     - Relative Velocity (Perp. Velocities: Boat or Plane)
     - Relative Velocity (Perp. Velocities: Intersection)
     - 1D Collisionand Type
     - 2D Collision
     - 2D Explosion

Science 122

Thursday, March 21/19

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

1. SA - Hydrostatics
   Date: Tuesday, March 26/19
   Format: Problems Only
   -> P= F/A
   -> P2 = P1 + ρgh (2 or more equations)
   -> % of an object visible/submerged
   -> Pascal's Problem - Hydraulic Problem
   -> $W_{app} = W - F_B$
   -> Net Force Problem

   * density and specific gravity

2. Questions?
   Worksheet - Equation of Continuity and Bernoulli's Principle (Problems #50-55)

3. Ideal Fluid Flow

4. Bernoulli's Equation

5. Worksheet - Equation of Continuity and Bernoulli's Equations (Problems #56-59)

6. Worksheet: Problems - Continuity and Bernoulli's Equation
   Worksheet: Fluids - Continuity and Bernoulli: Extra Practice #2

Science 10

Thursday, March 21/19

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

http://mvhs-sherrard.weebly.com/

1. Questions?
   Worksheet #4: Ionic Compounds Containing Transition Elements
   Worksheet #5: Ionic Compounds Summary
   Worksheet - Lots More Practice
   Worksheet - Binary Molecular Compounds #1 and #2

2. FA - Mixed Ionic Compounds
   FA - Molecular Compounds

3. Ionic vs. Molecular Compounds

4. Mixed Ionic/Covalent Compound Naming #1

5. Review - Naming Chemical Compounds #2

6. SA - Chemistry #2 (Atomes, Ions and Compounds)
   - Topics (See Next Page)
   - Earliest Date: Wednesday, March 27/19

7. Review: SA Chemistry #2

Topics: SA - Chem #2

H

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: 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