Physics 112

Tuesday, October 9/18

- http://mvhs.nbed.nb.ca/
 http://mvhs-sherrard.weebly.com/
- 1. UAM Kinematic Equation #4 Continue
- 2. Return:

SA -> U1: S1&2 Conferences Required by October 11/18 if Mark < 60%

- 3. Progress Reports
- 4. Worksheet Motion Problems Try Some

Physics 122

Tuesday, October 9/18

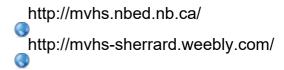
http://mvhs.nbed.nb.ca/
http://mvhs-sherrard.weebly.com/

Progress Reports

- 1. FA Static Torque #1
- 2. Worksheet: Static Torque Type II
- 3. FA Static Torque #2
- 4. FA Static Torque #1 and #2
- 5. SA U1 S1&2 -> Tuesday, October 16/18 (~10 minutes/problem)
 - Calculate R using perpendicular components of two or more vectors.
 - Solve a push/pull problem.
 - Solve a suspended object problem (complex).
 - Solve an inclined plane problem.
 - Solve a static torque problem with vertical forces.
 - Solve a static torque problem with forces acting at angles.

Science 10

Tuesday, October 9/18



- 1. Science Reading Article Human Cyborgs vs Bionic Humans Pass In
- 2. FA Molecular Compounds
- 3. SA Chem #2 Atoms to End of Compounds
 - Topics (See Next Page)
 - Date: Wednesday, October 10/18
- 4. Check: Review for SA Chem #2
- 5. ABC Brainstorming Topic Chemistry
- 6. Counting Atoms
- 7. Worksheet Counting Atoms

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. diatomic 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