Science 9

Monday, November 4/19

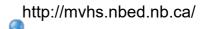
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STEM Tuesday

Take Your Kids to Work Day - Wednesday

- 1. Asteroids -> Bennu: Video Clips
- 2. Comets
- 3. Periodicity of Comets
- 4. Meteoroids, Meteors and Meteorites
- 5. In-Class SA -> The Solar System-> Date: <u>Tuesday, Nov. 12/19</u>
- 6. Projects
- 7. SA -> The Universe and Solar System
 - -> Date: <u>To Be Decided</u>

Physics 112 Monday, November 4/19



- 1. Progress Reports
- 2. Return: FA Free Body Diagrams -> No Learning Category Required
- 3. Questions? Worksheet: U2-S2 -> First Law of Motion
- 4. FA- 1st Law Problem -> Tomorrow
- 5. Newton's Second Law of Motion (Law of Force, Mass and Acc.) -> To Be Continued
- 6. Second Law Problems
- 7. Second Law Examples (Type I, II and III)
- 8. Worksheet: U2-S2 -> Second Law of Motion

Physics 122 Monday, November 4/19

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- Return SAs
 Redo Thursday, Nov. 7/19
 *Participants in Remembrance Day Ceremony
- 2. Progress Reports
- 3. Questions? Worksheet Uniform Circular Motion
- 4. Banked and Unbanked Curves
- 5. Worksheet Banked and Unbanked Curves
- 6. Unit 2 Universal Gravitation
- 7. Theories of Planetary Motion
- 8. Experiment 8.1 Kepler's Laws Page 49
- 9. Backup Notes: Kepler's Three Laws of Planetary Motion
- 10. Worksheet Kepler's Laws

Science 10 Monday, November 4/19

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1. Questions?

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SA - Chemistry #3 - Tuesday, Nov. 5/19
- Topics (See Next Page)
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- 2. Unit 2 Physics
- 3. Physics
- 4. Physical Quantities
- 5. SI System
- 6. Base Units
- 7. Derived Units
- 8. Scientific Notation
- 9. Certainty and Significant Digits
- 10. Our Rule for Counting SDs
- 11. Worksheet Counting Significant Digits and Rounding

Topics - SA: Chem #3

- be able to identify ionic compounds and molecular compounds
 - ionic compounds begin with a metallic ion or ammonium
 - molecular compounds begin with a nonmetal or metalloid
- be able to write the formulas and names for:
 - (a) simple binary ionic compounds
 - ie/ NaCl sodium chloride
 - (b) ionic compounds containing polyatomic ions ie/ Mg(ClO₃)₂ magnesium chlorate
 - (c) ionic compounds containing multivalent metals ie/ FeBr₃ iron (III) bromide
 - (d) ionic compounds containing multivalent metals and polyatomic ions
 - ie/ Cu₃PO₄ copper (I) phosphate
 - (e) binary molecular compounds (prefixes are required for these compounds)
 - ie/ P₂O₅ diphosphorous pentoxide
 - (f) binary acids (anions do not contain oxygen)
 - ie/ HF hydrofluoric acid
 - (g) oxyacids (anions do contain oxygen)
 - ie/ H₂SO₄ sulfuric acid [sulfate -> sulfuric] ie/ HClO₂ chlorous acid [chlorite -> chlorous]
- recognize the 7 elements that form diatomic molecules (H_2 , N_2 , O_2 , F_2 , Cl_2 , Br_2 and I_2), S_8 , and P_4
- identify acids, bases and salts
- identify reactants and products
- be able to identify **six** types of reactions (formation, decomposition, single replacement reactions, double replacement reactions, combustion reactions, and neutralization reactions)
- be able to balance chemical reactions using numerical coefficients
- be able to translate sentences/word equations
- be able to predict products
- be able to define reaction rate
- be able to state four factors that affect reaction rates and describe how they affect reaction rates