Physics 112

Wednesday, November 8/17

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1. SA: U2 - S1&2: Today -> Wed., Nov. 8
   Format: MC and Problems

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2. U2 - S3: Introduction to Momentum
3. Momentum
4. Impulse
5. Worksheet - Momentum (PP #29) and Impulse (PP #30-32)

Physics 122

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1. Investigation 12-A: Orbital Speed of Planets

2. Geosynchronous Orbit

3. Periods of Orbiting Bodies

4. Worksheets - Kepler, Universal Gravitation, Etc.

5. SA - U2 S1&2: Nov. 16

5. Midterm - Nov. 21
   -> push/pull OR incline plane
   -> static torque
   -> relative velocity (boat or plane)
   -> 2D collision/explosion
   -> uniform circular motion + banked/unbanked curve
   -> universal gravitation, g, v and T

Science 10

Wednesday, November 8/17

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1. SA: Chem #3 - Date: Thursday, Nov. 9/17
2. Review - SA - Chem #3
3. Roller Coasters and/or Practice/Help

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/ $Mg(ClO_3)_2$ - magnesium chlorate
  (c) ionic compounds containing multivalent metals
  ie/ $FeBr_3$ - iron (III) bromide
  (d) ionic compounds containing multivalent metals and polyatomic ions
  ie/ Cu_3PO_4 - copper (I) phosphate
  (e) binary molecular compounds (prefixes are required for these compounds)
  ie/ P_2O_5 - diphosphorous pentoxide
  (f) binary acids (anions do not contain oxygen)
  ie/ HF - **hydro**fluor**ic acid**
  (g) oxyacids (anions do contain oxygen)
  ie/ H_2SO_4 - sulfuric acid [sulf**ate** -> sulfur**ic**]
  ie/ $HClO_2$ - chlorous acid [chlor**ite** -> chlor**ous**]
- 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 word equations
- be able to predict products