


## Science 9

Monday, November 4/19

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### **STEM Tuesday**

### **Take Your Kids to Work Day - Wednesday**

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1. Asteroids -> Bennu: Video Clips

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2. Comets

3. Periodicity of Comets

4. Meteoroids, Meteors and Meteorites

5. In-Class SA -> The Solar System

-> Date: Tuesday, Nov. 12/19

6. Projects


7. SA -> The Universe and Solar System

-> Date: To Be Decided

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## Physics 112

Monday, November 4/19

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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
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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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1. 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](#)
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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?

**SA - Chemistry #3 - Tuesday, Nov. 5/19**

- Topics (See Next Page)

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(ClO<sub>3</sub>)<sub>2</sub> - magnesium chlorate
  - (c) ionic compounds containing multivalent metals
    - ie/ FeBr<sub>3</sub> - iron (III) bromide
  - (d) ionic compounds containing multivalent metals and polyatomic ions
    - ie/ Cu<sub>3</sub>PO<sub>4</sub> - copper (I) phosphate
  - (e) binary molecular compounds (prefixes are required for these compounds)
    - ie/ P<sub>2</sub>O<sub>5</sub> - diphosphorous pentoxide
  - (f) binary acids (anions do not contain oxygen)
    - ie/ HF - **hydrofluoric acid**
  - (g) oxyacids (anions do contain oxygen)
    - ie/ H<sub>2</sub>SO<sub>4</sub> - sulfuric acid [sulfate -> sulfuric]
    - ie/ HClO<sub>2</sub> - chlorous acid [chlorite -> chlorous]
- recognize the 7 elements that form diatomic molecules (H<sub>2</sub>, N<sub>2</sub>, O<sub>2</sub>, F<sub>2</sub>, Cl<sub>2</sub>, Br<sub>2</sub> and I<sub>2</sub>), S<sub>8</sub>, and P<sub>4</sub>
- 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**