Physics 112

Tuesday, February 18/20

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1. Return and Review:
   Summative Assessment - Basic Knowledge and Skills

2. Questions?
   Independent Practice:U1-S1 -> Vector Analysis

3. FA - U1S1: Calculate **R** -> Tomorrow

4. Unit 1 - Section 2 -> Graphical Analysis

5. Handout - Types of Motion

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6. Directions of Velocity and Acceleration - Notes and Handout

7. Position-Time Graphs

8. Velocity-Time Graphs

9. Interpreting P-T and V-T Graphs

10. Velocity-Time Graph Calculations

Physics 122

Tuesday, February 18/20

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1. FA - Suspended Object - Complex -> Gehrig

2. Questions?
   IP - 2D Force Problems (Type I)
   IP - 2D Force Problems (Type II)
   IP - 2D Force Problems (Type III)

3. FA - 2D Force Problem (Type III)

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4. U1S2 - Static Torque

5. Center of Mass

6. Types of Motion - Large Objects

7. Torque

8. Net Torque

9. Static Equilibrium Revisited

10. Guided Practice:
    Type I - Static Torque - Only Vertical Forces

Science 122

Tuesday, February 18/20

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1. FA - Double Lens Problem

2. Questions?
   Review: Mirrors and Lenses

3. SA - Optics -> Date: Wed., Feb. 19/20

4. Next Topic: Nuclear Physics

5. Review - Atoms

6. Isotopes

7. Radioactive Decay

8. Alpha Decay

9. Beta Decay

10. Gamma Decay

11. Radioactive Decay - Penetration Power

12. Decay Series

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13. Half Life

14. Activity and Decay Constant

Science 10

Tuesday, February 18/20

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1. Get Sheets Initialed for Possible Re-assessment

2. FA - Standard Atomic Notation and Bohr-Rutherford Diagram
   - Checked in Class Friday

3. SA - Chemistry #1
   - Date: Wed. Feb. 19/20

4. Check:
   Worksheet - Bohr-Rutherford Diagrams: Atoms to Ions

5. Periodic Table of Ions - Continue

6. Worksheet - Chemistry: Ions and Subatomic Particles

7. Naming Monatomic Ions - To Be Continued

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8. Nomenclature Worksheet #1 - Monatomic Ions

9. FA - Atoms and Ions

10. Handout - Ionic Compounds

11. Simple Binary Ionic Compounds

12. Nomenclature Worksheet #2 - Simple Binary Ionic Compounds

Science 10

Topics: SA - Chem #1

1. chemistry
2. matter
3. types of properties: physical and chemical
4. types of changes: physical and chemical
5. atoms -> building blocks of matter
   -> three subatomic particles: p^+, n, e^-
   -> locations of three subatomic particles
   -> electrically neutral: $\#p^+ = \#e^-$
6. element
7. chemical symbols
8. periodic table of the elements - periods (rows)
   - groups/families (columns)
   - family and period names
   - location of metals, nonmetals and metalloids
   - characteristics of metals and nonmetals
9. atomic number = number of protons = # electrons (for atoms)
10. standard atomic notation -> mass # is atomic weight rounded to the nearest whole number
    -> #N = mass # - atomic #
11. Bohr-Rutherford Diagrams (for atoms)