Physics 112

Thursday, February 13/20

1. Return:
   Yellow Duo-tangs

2. Summative Assessment - Date: Feb. 13 or 14/20

3. Learning Targets: Unit 1 - Kinematics

4. Handout - Range of Resultant Magnitudes - To Be Continued

5. Review: Primary Trigonometric Ratios

6. Review: Law of Pythagoras

7. Rubric - Adding Vectors Analytically

8. Examples: Adding Vectors Analytically

9. **Independent Practice:U1-S1 - Vector Analysis**

Topics - SA: Basics Knowledge/Skills

1. physics - definition

2. metrology - definition

3. physical quantity - definition

4. measurements - two parts

5. scientific notation

6. accuracy/precision - definitions, interpret scenario

7. significant digits - in a given measurement
   - Precision (+ and -) & Certainty (x and ÷) Rules

8. SI system - quantities and 7 base units (names/symbols)
   - derived units

9. SI prefixes - names, symbols and powers of ten

10. metric conversions - 1 step
    - 2 steps (including m/s ⟷ km/h)

11. rearranging equations

12. percent error calculation

Physics 122

Thursday, February 13/20

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1. Check:
   IP - 2D Force Problems (Type II)

2. Force Problems - Type III (Inclined Plane Problems)

3. Guided Practice

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4. **IP - 2D Force Problems (Type III)**

Science 122

Thursday, February 13/20

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1. Check:
   IP - Lenses
   IP - Lenses in Combination

2. FA - Lens: Ray Diagram
   FA - Lens: Problems
   } Submit

3. FA - Double Lens Problem

4. **IP - Review: Mirrors and Lenses**

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

Science 10

Thursday, February 13/20

1. Summative Assessment: Periodic Table of Me, Myself and I
   Due - Friday, Feb. 7/20
   4 Days Late Today

2. Check:
   Review: SA - Chemistry #1

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

4. Ions: Cations and Anions

5. Worksheet - Bohr-Rutherford Diagrams: Atoms to Ions

6. Worksheet - Chemistry: Ions and Subatomic Particles

7. Naming Monatomic Ions

8. Periodic Table of Ions

9. Worksheet #1 - Monatomic Ions

10. Handout - 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)