

Physics 112

Wednesday, February 12/20

1. Return:
FA - Operation Rules, Conversions, Rearranging Equations, and Percent Error
 2. **Summative Assessment - Date: Feb. 13 or 14/20**
 3. Learning Targets: Unit 1 - Kinematics
 4. Adding Vectors Graphically (2 Methods)
 5. Handout - Order of Vector Addition
 6. Handout - Range of Resultant Magnitudes - To Be Continued
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7. Review: Primary Trigonometric Ratios
 8. Review: Law of Pythagoras
 9. Rubric - Adding Vectors Analytically
 10. Examples: Adding Vectors Analytically

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 \div) 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 $\text{m/s} \longleftrightarrow \text{km/h}$)
11. rearranging equations
12. percent error calculation

Physics 122

Wednesday, February 12/20

1. Check:
IP - 2D Force Problems (Type II)
 2. Force Problems - Type III (Inclined Plane Problems)
 3. Guided Practice
 4. **IP - 2D Force Problems (Type III)**
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Science 122

Wednesday, February 12/20

1. Check:
IP - Lenses
 2. FA - Lens: Ray Diagram }
FA - Lens: Problems }
 3. **IP - Lenses in Combination**
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4. FA - Double Lens Problem
 5. IP - Review: Mirrors and Lenses

Science 10

Wednesday, February 12/20

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

2. Topics: SA - Chemistry #1

3. Check:

Review: SA - Chemistry #1 -> Tomorrow

4. **SA - Chemistry #1**

- Date: Wed. Feb. 19/20

5. Ions

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

7. Worksheet - Chemistry: Ions and Subatomic Particles

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
 - > $\#N = \text{mass \#} - \text{atomic \#}$
11. Bohr-Rutherford Diagrams (for atoms)