

Physics 112

Thursday, February 7/19

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1. Class List/Seating Plan
 2. **Assignment - My Alphabetical Autobiography
- 1 Day Late**
 3. Check #10: Worksheet - Percent Error Practice Problems
 4. Significant Digits - Operation Rules - Continue
 5. Worksheet: Certainty and Precision Rules (Checked in Class)
 6. FA - Scientific Notation, Percent Error and Operation Rules
(Tomorrow or Monday)
 7. International System of Units
 8. SI Fundamental/Base and Derived Units
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9. SI Prefixes
 10. Metric Conversions
 11. Worksheet - Conversions and Equations
 15. Rearranging Equations
 16. Worksheet - Conversions and Equations

10) A student's calculation was found to have a 15.6% error, and the actual value was determined to be 25.7 mL. What are the two possible values for the student's experimental measurement?

$$\% \text{ error} = 15.6\% = 0.156 \quad \begin{array}{l} \nearrow + \\ \searrow - \end{array}$$

$$a = 25.7 \text{ mL}$$

$$e = ?$$

$$\% \text{ error} = \frac{e - a}{a}$$

$$\textcircled{+ 0.156} = \frac{e - a}{a}$$

$$0.156a = e - a$$

$$1.156a = e$$

$$1.156(25.7) = e$$

$$e = \underline{29.71 \text{ mL}}$$

$$-0.156 = \frac{e - a}{a}$$

$$-0.156a = e - a$$

$$-0.156a + 1a = e$$

$$\underbrace{\hspace{10em}}_{0.844a} = e$$

$$e = \underline{21.69 \text{ mL}}$$

Physics 122

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1. Questions?
Worksheet: Vectors - Perpendicular Components
 2. FA - Perpendicular Components of a Vector
FA - Adding Vectors Using Perpendicular Components
(tomorrow in class or complete for Monday)
 3. Type I: Pulling or Pushing An Object -> Continue
 4. [Worksheet: Force Problems - Type I](#)
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5. FA - Force Problem - Type I - Pull
FA - Force Problem - Type I - Push
 6. Static Equilibrium
 7. Type II: Suspended Objects - Simple
 8. Worksheet: Type II (Suspended Objects - Simple)
 9. Type II: Suspended Objects - Complex
 10. Worksheet: Type II (Suspended Objects - Complex)

Science 122

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1. Return -> FA - Ray Diagram: Refraction and Snell's Law
 2. [Worksheet - Concave and Convex Mirrors \(Calculations\)](#)
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3. Lenses
 4. Convex Lenses
 5. Ray Diagrams: Convex Lens
 6. Concave Lenses
 7. Ray Diagram: Concave Lens
 8. Lens and Magnification Equations and Sign Conventions
 9. Worksheet - Convex and Concave Lenses
- All Mirrors and Lenses

Science 10

Thursday, February 7/19

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1. Class List/Seating Plan
 2. **Assignment - Autobiographical Poem
1 Day Late**
 3. Check:
Handout - Find the Hidden Element
 4. Handout - Chemical Symbol Scramble
 5. Handout - Chemical Periods and Groups/Families
 6. Handout - Metals, Nonmetals and Metalloids
 7. Characteristics of Metals and Nonmetals
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8. Atomic Number
 9. Standard Atomic Notation
 10. Worksheet: Standard Atomic Notation
 11. Bohr-Rutherford Diagrams
 12. Worksheet: Bohr-Rutherford Diagrams
 13. SA - Chem #1