Physics 112

Tuesday, September 12/17

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1. Assignment - Alphabetical Autobiography
   - Check in by Friday, Sept. 15/17
2. Return - FA
3. Check -> Worksheet - Conversions and Rearranging Formulas
4. Rearranging Equations
5. Worksheet - Conversions and Rearranging Formulas - HW
6. Summative Assessment - Basic Skills
   - Fri. 915/17.

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7. Concept Sheet -> Unit 1 - Section 1: Vector Analysis
8. Unit 1 - Learning Targets
9. Mechanics
10. Types of Physical Quantities
11. Vectors: Direction, Notation and Representation
12. Adding Vectors Graphically
13. Range of Resultant Magnitudes
14. Rubric: Vector Analysis

#3. 0.926 pg to g

→ 1 STEP CONVERSION
→ 1 Conversion factor
→ SI prefix chart
→ 1 pg = 10^{-12} g

$0.926\,\text{pg} \times \frac{10^{-12}\,\text{g}}{1\,\text{pg}} = 9.26 \times 10^{-13}\,\text{g}$

3 SF 3 SF

0.926 x 1EE 12- =
1EXP -12

5. 2748 kg to ng

kg → g → ng

1 kg = 10^{3} g, 1 ng = 10^{-9} g

$2748\,\text{kg} \times \frac{10^{3}\,\text{g}}{1\,\text{kg}} \times \frac{1\,\text{ng}}{10^{-9}\,\text{g}}$

2748 (x) 1EE 3 (÷) 1EE 9-

9. 2.96 m/s to km/h

1 km = 10^{3} m, 1 h = 3600 s

$2.96\,\frac{\text{m}}{\text{s}} \times \frac{1\,\text{km}}{10^{3}\,\text{m}} \times \frac{3600\,\text{s}}{1\,\text{h}}$

3 SF 3 SF

3600 ÷ 3.6 = 1000

10.7 km/h

3 SF

m/s —x3.6→ km/h
km/h —÷3.6→ m/s

Physics 112 - FA - Basic Skills #1 - S11/17

1. Define physics.
2. Every measurement has two parts. What are they?
3. Write 0.0348 m in scientific notation.
4. Describe the results below in terms of accuracy and precision.

5. How many significant digits does each measurement have?
   a) 1.08 g
   b) 0.0020 mm
   c) 8.970×10^3 kg

6. What rule is used to determine the number of significant digits of your final answer when adding and subtracting measurements?

7. Name the seven base SI units.

Physics 122

Tuesday, September 12/17

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Wednesday - Assembly (Attendance -> Gym)

1. Return -> FA - Determine $\vec{R}$.
2. Check -> Worksheet: Force Problems - Type I
3. Static Equilibrium
4. Type II: Suspended Objects - Simple
5. Example - Type II: Suspended Objects - Simple
6. Worksheet - Type II - Simple - HW

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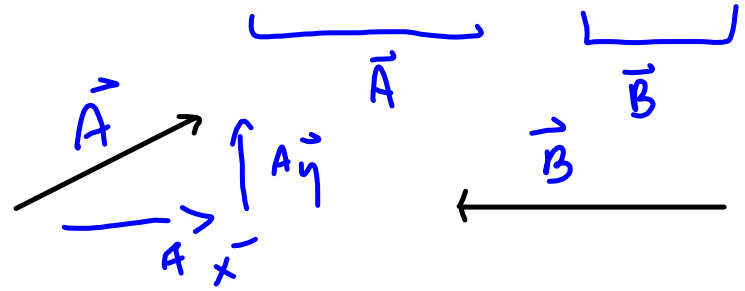
7. Example - Type II: Suspended Objects - Complex
8. Worksheet - Type II - Complex

Physics 122 - FA - Determine $\vec{R}$ - S11/17

Determine the resultant of 43 N, 50° N of E and 57 N, W.



$\vec{A}x = 27.6$ N $\qquad \vec{B}x = -57$ N

$\vec{A}y = 32.9$ N $\qquad \vec{B}y = 0$ N

$\vec{R}x = -29.4$ N

$\vec{R}y = 32.9$ N

$\vec{R} = 44$ N, 48° N of W

Science 10

Tuesday, September 12/17

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1. Class List/Seating Plan

2. Assignment - Autobiographical Poem
   Due: Friday, Sept. 8/17
   2 Days Late

3. Formative Assessment - Return - Period 5

4. Check -> Worksheet - Chemistry: Ions and Subatomic Particles

5. Naming Monatomic Ions

6. Periodic Table of Ions

7. Worksheet #1 - Monatomic Ions - HW

8. Assignment - Your Name in Chemical Symbols
   - Due: Friday, Sept. 15/17 - Period 4
   Period 5 - TBA

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9. Ionic Bonds

10. Simple Binary Ionic Compounds

11. Worksheet #2 - Simple Binary Ionic Compounds

12. Polyatomic Ions