

Science 122

Monday, September 12/16

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1. Student Package - Welcome
 - School Safety
 - Emergency Busing Arrangements
 - Media Coverage - Parent Permission
 - Student Data Collection Form (Wed., S14/16)

2. Right-Hand Rule #2

3. Electric Currents in Magnetic Fields

4. Right-Hand Rule #3

5. Two Current-Carrying Wires

6. Worksheet - Right Hand Rules

7. MC - Magnetic Fields and Hand Rules

} HW

8. Electric Motors

9. Quiz - Start to Electric Motors: _____

10. Handout - The Magnitude of Magnetic Fields (Calculations)

11. Worksheet - Magnetic Field Produced by a Wire

Physics 112

Monday, September 12/16

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*Bus Evacuation - Thursday, P2

1. Assignment - Alphabetical Autobiography
 - Due: Frid., Sept. 9/16
 - **1 Day Late**
 2. Base/Fundamental Units - Continue
 3. SI Derived Units
 4. SI Prefixes
 5. Metric Conversions - To Be Continued
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6. Worksheet - Conversions and Rearranging Formulas
 7. Accuracy vs Precision
 8. Significant Digits
 9. Significant Digits - Operation Rules
 10. Rearranging Equations
 11. Worksheet - Conversions and Rearranging Formulas

Physics 122

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1. Return -> FA - Perpendicular Components
 2. Check -> Worksheet: Vectors - Perpendicular Components #4-6
 3. FA - Finding \vec{R} Using Perpendicular Components
 4. Reminders: Forces
 5. Force Problems Involving Components
 6. [Type I - Push/Pull Problems - HW - Complete Example Part \(a\)](#)
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7. Worksheet: Force Problems - Type I
 8. Static Equilibrium
 9. Type II: Suspended Objects - Simple

P122**Formative Assessment - Perpendicular Components**

Sept. 9/16

Determine the perpendicular components of a force vector with a magnitude of 29 N and a direction of 47° S of W.


$$\vec{A}$$

$$A = 29 \text{ N}$$

$$\vec{A} = 29 \text{ N}, 47^\circ \text{ S of W}$$

$$A_x = A \cos \theta$$

$$A_x = \pm A \cos \theta$$

Physics 122**FA - Finding \vec{R} Using Perpendicular Components****Monday, Sept. 12/16**

Three forces act simultaneously on point P. The first force is 10 N east. The second force is 15 N south. The third force is 28 N, 46° S of E. Find the resultant force.

$$\begin{array}{l} \vec{A}_x \\ \vec{A}_y \end{array} \left. \vphantom{\begin{array}{l} \vec{A}_x \\ \vec{A}_y \end{array}} \right\} (2) \quad \begin{array}{l} \vec{B}_x \\ \vec{B}_y \end{array} \left. \vphantom{\begin{array}{l} \vec{B}_x \\ \vec{B}_y \end{array}} \right\} (2) \quad \begin{array}{l} \vec{C}_x \\ \vec{C}_y \end{array} \left. \vphantom{\begin{array}{l} \vec{C}_x \\ \vec{C}_y \end{array}} \right\} (2) \quad \begin{array}{l} \vec{R}_x \\ \vec{R}_y \end{array} \left. \vphantom{\begin{array}{l} \vec{R}_x \\ \vec{R}_y \end{array}} \right\} (2)$$

$$\vec{R} \quad (2)$$

46 N, 50° S of E

Science 10

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1. **Assignment - Autobiographical Poem**
- Due: Today - Monday, Sept. 12/16
 2. Characteristics of Metals and Nonmetals - Continue
 3. Atoms and Their Structure
 4. Atomic Number
 5. Reminder: Bohr Diagrams
 6. Ions
 7. Periodic Table of Ions
 8. **Worksheet - Chemistry: Ions and Subatomic Particles - HW**
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9. Naming Monatomic Ions
 10. Worksheet - Worksheet #1 - Monatomic Ions
 11. Assignment - Your Name in Chemical Symbols
- Due: _____