

Science 122

Thursday, September 15/16

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*Bus Evacuation - Today, P2

1. Media Coverage - Parent Permission
Student Data Collection Form

2. Quiz - Start to Electric Motors

~~Frid. 5/16/16~~

3. Check -> Worksheet - The Force On A Wire Due To A
Magnetic Field

4. Force on a Single Charged Particle

5. [Worksheet - Magnetic Force on a Single Charged Particle - HW](#)

6. Trajectory of A Single Charged Particle in a Uniform Magnetic
Field

7. Worksheet - Magnetic Fields and Circular Paths

8. Background - Strength of an Electric Field

Physics 112

Thursday, September 15/16

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*Bus Evacuation - Today, P2: Bus #4 (10:15-10:30)

1. Assignment - Alphabetical Autobiography
2. Rearranging Equations
3. [Worksheet](#) - Conversions and [Rearranging Formulas HW](#)
4. Summative Assessment - Basic Skills
 - Topics
 - TBA

5. Experiment 2.1 - Measuring Length (Page 3)

Physics 122

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1. Formative Assessment - Pull Problem
2. Check -> [Worksheet - Type II - Simple - HW](#)
3. Type II: Suspended Objects - Complex
4. Examples Type II - Complex - To Be Continued

5. Worksheet - Type II - Complex
6. Type III: Inclined Plane Problems
7. Examples: Type III
8. Worksheet - Type III - Inclined Planes

Physics 122

Formative Assessment - Pull Problem

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A block is pulled along a horizontal surface by a string. The string makes an angle of 30° to the horizontal and is pulled by a 100 N force. If the coefficient of friction between the surface and block is 0.23, and the magnitude of the acceleration of the block is 1.7 m/s^2 to the right, what is the mass of the block?

① sketch

② $F_{\text{net } x} = m\vec{a}$ (hor. forces)

$$+F_x - F_f = m(+a)$$

$$F \cos \theta - \mu N = ma$$

③ $F_{\text{net } y} = m\vec{a}$ (vert. forces)

$$+N + F_y - W = 0$$

$$N + F \sin \theta - mg = 0$$

$$N = +mg - F \sin \theta$$

25 kg

Science 10

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1. **Assignment - Autobiographical Poem**
 - Due: Monday, Sept. 12/16
 - 3 Days Late
 2. Quiz - Chemistry to Ions
 - Handout - Topics
 - Friday, Sept. 16/16.
 3. Assignment - Your Name in Chemical Symbols
 - Due: Friday, Sept. 16/16.
 4. Ionic Bonds
 5. Simple Binary Ionic Compounds - To Be Continued
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6. Worksheet #2 - Simple Binary Ionic Compounds
 7. Polyatomic Ions
 8. Ionic Compounds Containing Polyatomic Ions
 9. Worksheet #3 - Ionic Compounds Containing Polyatomic Ions