Physics 112

Friday, November 3/17

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1. Return -> FA - Force Problem #2 -> D2.4
2. Questions?
   Worksheets - Newton's Second Law Problems
3. Terminal Velocity
4. Newton's Third Law
5. SA: U2 - S1&2 - Next Week: Wed., Nov. 8
6. Worksheets: First and Second Laws Combined

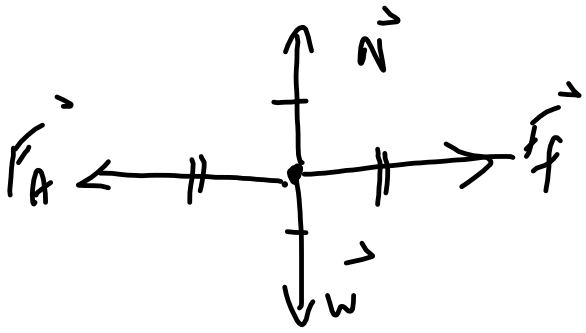
Formative Assessment - Force Problem #2 (N2/17) - D2.4

A physics student pulls a 50 kg cement block westward along his driveway with a force of 250 N. If the velocity of the block was constant, what was the coefficient of friction between the block and driveway?

1st Law

$m = 50\,kg$

$F_A = 250\,N$



$F_A = F_f$ ✓ $\quad F_f = \mu N$ ✓

$N = W$ ✓ $\quad W = mg$ ✓

$F_A = F_f$

$F_A = \mu N$

$F_A = \mu W$

$F_A = \mu mg$

$\mu = \dfrac{F_A}{mg}$

* 2

Physics 122

Friday, November 3/17

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1. Experiment 8.1 - Kepler's Laws - Due: Today, Nov. 3/17
2. Return -> FA - Circular Motion
3. Questions?
   Worksheet - Kepler's Third Law Problems
4. Universal Law of Gravitation
5. Worksheet - Universal Law of Gravitation Chapter 12 - HW
   (Page 580, PP#1-7)

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6. Calculating the Value of "g"
7. Gravitational Field Strength
8. Orbital Speed
9. Geosynchronous Orbit

Science 10

Friday, November 3/17

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1. P5 : Return -> Formative Assessment: Translating and Predicting
   -> Previous SAs

2. Topics - SA: Chem #3
   - Date: Thursday, Nov. 9/17

3. Worksheet - Acids and Bases
   Worksheet - Neutralization Reactions

4. Roller Coasters and/or Practice/Help

Topics - SA: Chem #3

- be able to identify ionic compounds and molecular compounds
  - ionic compounds begin with a metallic ion or ammonium
  - molecular compounds begin with a nonmetal or metalloid
- be able to write the formulas and names for:
  (a) simple binary ionic compounds
  ie/ NaCl - sodium chloride
  (b) ionic compounds containing polyatomic ions
  ie/ $Mg(ClO_3)_2$ - magnesium chlorate
  (c) ionic compounds containing multivalent metals
  ie/ $FeBr_3$ - iron (III) bromide
  (d) ionic compounds containing multivalent metals and polyatomic ions
  ie/ Cu_3PO_4 - copper (I) phosphate
  (e) binary molecular compounds (prefixes are required for these compounds)
  ie/ P_2O_5 - diphosphorous pentoxide
  (f) binary acids (anions do not contain oxygen)
  ie/ HF - **hydro**brom**ic acid**
  (g) oxyacids (anions do contain oxygen)
  ie/ H_2SO_4 - sulfuric acid [sulf**ate** -> sulfur**ic**]
  ie/ $HClO_2$ - chlorous acid [chlor**ite** -> chlor**ous**]
- recognize the 7 elements that form diatomic molecules (H_2, N_2, O_2, F_2, Cl_2, Br_2 and I_2), S_8, and P_4
- identify acids, bases and salts
- identify reactants and products
- be able to identify **six** types of reactions (formation, decomposition, single replacement reactions, double replacement reactions, combustion reactions, and neutralization reactions)
- be able to balance chemical reactions using numerical coefficients
- be able to translate word equations
- be able to predict products