

Physics 112

Thursday, November 2/17

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1. FA - Force Problem #2
 2. Video Clip
 3. Worksheets - Newton's Second Law Problems - Try
-
4. Newton's Third Law
 5. SA: U2 - S1&2 - Next Week

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?

Physics 122

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1. **Experiment 8.1 - Kepler's Laws - Due: Friday, Nov. 3/17**

2. FA - Circular Motion

3. Worksheet - Kepler's Third Law Problems

4. Universal Law of Gravitation

5. Worksheet - Universal Law of Gravitation Chapter 12
- Page 580, PP#1-7

6. Calculating the Value of "g"

7. Gravitational Field Strength

8. Orbital Speed

9. Geosynchronous Orbit

Formative Assessment: Circular Motion - N2/17

A body travelling in a clockwise direction, moves uniformly with a speed of 3.5 m/s on a flat circular track of diameter 10 m.

- a) What is the frequency of the body?
- b) What is the coefficient of static friction between the body and the track?
- c) If the centripetal force acting on the body is 12 N, what is the mass of the body?

Science 10

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1. P4 : Return -> Formative Assessment: Translating and Predicting
-> Previous SAs
2. Check -> Worksheet - Acids: Names and Formulas
3. Bases
4. Naming Bases
5. Neutralization Reactions
6. Topics - SA: Chem #3 - Printed Copy Tomorrow

7. Worksheet - Neutralization Reactions

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/ $\text{Mg}(\text{ClO}_3)_2$ - 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 - **hydrobromic acid**
 - (g) oxyacids (anions do contain oxygen)
 - ie/ H_2SO_4 - sulfuric acid [sulfate -> sulfuric]
 - ie/ HClO_2 - chlorous acid [chlorite -> chlorous]
- 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