Physics 112

Wednesday, November 1/17

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1. Return -> FA - Force Problem (First Law Problem)
2. Examples - Second Law Problems

3. Worksheets - Newton's Second Law Problems
4. Newton's Third Law

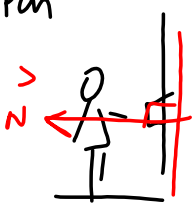
Formative Assessment - Force Problem (O31/17) - D2.4

A student on planet Luvfizics presses a 1.7 kg textbook against a vertical wall. The student applies a force of 51 N in order to prevent the textbook from sliding down the wall. What is the acceleration due to gravity on LuvFizics? Include a labelled FBD for the textbook.

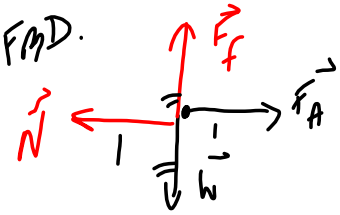
Note:

Surfaces	μ_s	μ_k
textbook and wall	0.284	0.196

sketch



FBD.



$N = F_A$ $\quad W = mg$

$F_f = W$ $\quad F_f = \mu N$

$$W = mg$$

$$F_f = mg$$

$$\mu N = mg$$

$$\mu F_A = mg$$

$$g = \frac{\mu F_A}{m}$$

$$g = \frac{(\ )(\ )}{(\ )}$$

magnitude → $g = 8.5\ m/s^2$

∴ The ~~~~ $8.5\ m/s^2$ down.

Physics 122

Wednesday, November 1/17

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1. Relative Error Calculation

$$\text{Rel. Error} = \frac{|\text{Accepted} - \text{Exp.}|}{\text{Accepted}} \times 100\%$$

2. Worksheet - Kepler's Third Law Problems

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

4. Universal Law of Gravitation

5. Gravitational Field Strength

6. Calculating the Value of "g"

Science 10

Wednesday, November 1/17

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1. Return -> Formative Assessment: Translating and Predicting
2. Worksheet - Acids: Names and Formulas - HW
3. Roller Coasters/Help for SA- Chem #3 (Next Week)

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4. Naming Bases
5. Neutralization Reactions
6. Worksheet - Neutralization Reactions