Science 10

Wednesday, April 18/18

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*Help with chem topics

1. Roller Coaster Wednesday

2. Check
   Worksheet – Counting Significant Digits and Rounding
3. Exact and Defined Values
4. Rounding Values
5. Worksheet – Counting Significant Digits and Rounding
6. Certainty Rule for Multiplying and Dividing Measurements
7. Precision Rule for Adding and Subtracting Measurements
8. Worksheet – Certainty and Precision Rules
9. Defining Equations
10. Rearranging Equations
11. Worksheets - Rearranging Equations
12. Metric Conversions
13. Worksheet - Metric Conversions

Physics 112

Wednesday, April 18/18

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Midterm - Monday, April 30

1. Questions?
   Worksheet - Practice Problems -> C4, Page 144: 5-7
   Worksheet - C4 - Weight and First Law Problems
   Page 151: PFU #26-28, 30-32, 34

2. FA - 1st Law Problem

3. Newton's Second Law of Motion (Law of Force, Mass and Acceleration)

4. Handout - Second Law of Motion

5. Second Law Problems - Type I, II and III

6. Examples: Type I and II -> To Be Continued

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7. Net Force Equations and Dimensions

8. Example: Type III

FA - 1st Law Problem (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

Physics 122

Wednesday, April 18/18

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Midterm - Thursday, April 26/18

1. FA - Coulomb's Law - 2 Objects - Justifications

2. Return -> FA - Coulomb's Law - 3 Charges with Angles
   Submit Justifications

3. Check:
   Worksheet - Textbook: Page 646, #11-14
   Textbook: Page 655, #20-24

4. Review - Gravitational Potential Energy

5. Formula: Electric Potential Energy

6. Electric Potential Difference

7. FA - U3 S1-> Topics

8. U3 -S2: Electric Circuits

Physics 122
FA - U3 S1

- electrostatics
- types of charge (2)
- transfer of charge
- charging by: friction, conduction and induction
- Law of Conservation of Electric Charge
- electrostatic force (attractive/repulsive)
- Coulomb's Law: 2 charges, 3 charges
- electric fields: diagrams - 1 source charge
  2 source charges
  2 charged plates
- electric field strength/intensity
- electric potential energy: E_Q , joule
- electric potential difference (voltage): V, volt

Science 122

Wednesday, April 18/18

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Midterm - April 30/18

1. Radioactive Isotopes and Uses
2. Return -> FA - Activity, Half-Life, Etc.
3. Quantization of Energy - Continue
4. Photons
5. Photoelectric Effect
6. Solar Cells - To Be Continued