

Science 122

Friday, November 25/16

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1. Return -> SA - Hydrodynamic Fluids
2. Alpha Decay - Continue
3. Beta Decay
4. Gamma Decay
5. Decay Series
6. Radioactivity - Dice Analogy - To Be Continued

7. Activity and Decay Constants
8. Sample Problems

Physics 112

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1. Labs Due - Wednesday, November 23/16
- 2 Days Late
 2. SA - Atwood's Machine
- Momentum, Impulse and Impulse-Momentum Theorem
- Monday, Nov. 28/16
 3. Three Cases - No Work is Done
 4. Worksheet - Textbook ->C6 Page 225: PP #4-10
 5. Types of Work - Positive and Negative Work
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6. Concept Page - U3 - S2: Types of Energy and Work-Energy Theorems
 7. Types of Energy
 8. Kinetic Energy

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1. Return - SA - Projectiles -> Monday
 2. U2 - S2: Simple Harmonic Motion
 3. Amplitude, Period and Frequency
 4. Conditions for SHM
 5. Pendulums
 6. Text: Page 614, PP #5-8 (Pendulums)
Text: Page 623, PFU #28
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**Text: Page 614, PP #5-8
(Pendulums)**

5. 1.3 s 7. 0.25 m
6. 4.0 m 8. 0.877 s.

PRACTICE PROBLEMS

5. What is the period of a pendulum with a length of 0.45 m?
6. What must be the length of a pendulum to give it a period of 4.0 s?
7. If every swing of the pendulum in a clock causes the second hand to move an angle

representing exactly one half a second, what must the length of the pendulum be to make the clock keep accurate time?

8. If a pendulum has a period of 0.36 s on Earth, what would its period be on the Moon?

**Text: Page 623, PFU #28
(Pendulums)**

$$g_m = 1.67 \text{ m/s}^2$$

28. What would the length of a pendulum have to be in order to have a period of 0.25 s?

Science 10

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1. **Physics Quiz #2 -> Monday, November 28/16**
 2. **Worksheet - Speed, Distance and Time - HW for Monday**
 3. **Roller Coaster Day - Project is due the week before Christmas Break.**
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