

# Physics 112

Tuesday, November 14/17

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1. Return -> Practice Problems  
SA - U2: S1&2

2. Midterm -> Tuesday, Nov. 21/17  
-> Format: Problems Only  
-> calculate  $\vec{R}$  (follow rubric)  
-> velocity-time graph  
-> freely falling body problem  
-> Newton's First Law problem  
-> Newton's Second Law problem  
-> Newton's Second Law problem

3. Questions about Midterm Problems?

4. U2 - S3: Introduction to Momentum

5. Momentum

6. Impulse

7. Worksheet - Momentum (PP #29) and Impulse (PP #30-32)

8. Impulse-Momentum Theorem

# Physics 122

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1. Return - Experiment 8.1 - Kepler's Laws
  2. Review -> Investigation 12-A: Orbital Speed of Planets
  3. Worksheets - Kepler, Universal Gravitation, Etc.
  4. SA - U2 S1&2: Nov. 16 - MC and Problems
  5. Midterm - Nov. 21
    - > push/pull OR incline plane
    - > static torque
    - > relative velocity (boat or plane)
    - > 2D collision/explosion
    - > uniform circular motion + banked/unbanked curve
    - > universal gravitation,  $g$ ,  $v$  and  $T$
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6. U2 - S3: Simple Harmonic Motion
  7. Simple Harmonic Motion
  8. Amplitude, Period and Frequency
  9. Two Requirements for SHM
  10. Pendulum - Period
  11. Worksheet - Text: C13 Page 614, PP #5-8 (Pendulums)
  12. Review - Hooke's Law
  13. Review - Types of Energy
  14. Mass on a Spring - Period

## Science 10

Tuesday, November 14/17

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1. Return Marks -> SA: Chem #3
  2. Physics
  3. Linear Motion
  4. Physical Quantity
  5. SI System of Units, Base Units and Derived Units
  6. Scientific Notation - P4
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7. Certainty and Significant Digits - P5 To Be Continued
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8. Rule for Counting SDs
  9. Exact and Defined Values
  10. Rounding Values
  11. Worksheet - Counting Significant Digits and Rounding
  12. Certainty Rule for Multiplying and Dividing Measurements
  13. Precision Rule for Adding and Subtracting Measurements
  14. Worksheet - Certainty and Precision Rules