

## Physics 112

Thursday, November 15/18

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1. Conferences - Evidence of Practice  
- Redo Request
  2. SA Redo - Monday, Nov. 16 - In Class
  3. Check:  
Worksheet - C5 - Momentum Page 197: PP #29  
- C5 - Impulse Page 200: PP #30-32
  4. FA - Momentum and Change in Momentum  
FA - Impulse
  5. Impulse-Momentum Theorem - To Be Continued
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6. Worksheet - C5 - Impulse-Momentum Thm. Page 203, PP #33-35  
- Mixed Page 209, PFU #37-45
  7. Worksheet - MC - Momentum, Impulse, Impulse-Momentum Thm.

## Topics: U2 - S1 & S2

1. definitions -> force, net force
2. unit of force:  $N = \text{kgm/s}^2$
3. types of forces -> contact and non-contact  
-> examples
4. five specific forces -> **W**, **F<sub>A</sub>**, **N**, **T**, **F<sub>f</sub>**
5. **W = mg**
6. coefficient of friction -> static and kinetic  
->  $u_s > u_k$
7.  $F_f = \mu N$
8. FBDs -> draw and label
9. inertia - definition  
- relationship to mass
10. Newton's First Law of Motion - Law of Inertia  
->  $\mathbf{F}_{\text{net}} = 0, \mathbf{a} = 0$   
state of equilibrium  $\left\{ \begin{array}{l} \text{(i) objects at rest} \\ \text{(ii) objects moving with constant} \\ \text{velocity} \end{array} \right.$
11. Newton's Second Law of Motion -> Law of Force, Mass and Acc.  
-> accelerating objects  
->  $\mathbf{a} \propto \mathbf{F}_{\text{net}}$   
->  $\mathbf{a} \propto \frac{1}{m}$
12. Newton's Third Law of Motion -> Law of Action and Reaction  
-> action and reaction forces
13. terminal velocity

## Physics 122

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1. FA - Unbanked/Banked Curve Problem  
- Deadline -> Nov. 16
  2. Experiment 8.1 - Kepler's Laws - Page 49 - Submit for Marks  
- Due - Friday, November 16/18
  3. Recap - Kepler's Three Laws of Planetary Motion
  4. [Worksheet - Kepler's Laws](#)
- 
5. Universal Law of Gravitation
  6. Worksheet - Universal Law of Gravitation  
C12 -> Page 580, PP#1-7
  7. Gravitational Field Strength
  8. Calculating the Value of "g"
  9. Orbital Speed
  10. Three Basic Orbits
  11. The Period of an Orbiting Object

## Science 10

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1. Chemistry - End of Week is deadline to complete FAs/SAs.
2. Science Articles
3. Return P5  
FA - Identifying and Counting Digits  
FA - Rounding Measurements
4. Check - P5  
Worksheet – Certainty and Precision Rules
5. Defining Equations
6. Rearranging Equations - P5 - To Be Continued
7. [Worksheets - Rearranging Equations - P4](#)

8. Metric Conversions
9. Worksheets - Metric Conversions