# Physics 112 Friday, May 17/19

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FA Duo-Tangs -> Submit Friday

SA - U3 S1&2 -> Wednesday, May 22/18

-> Work, Types of Energy and W-E Theorems

- 1. FA Kinetic Energy
  FA Work-Kinetic Energy Theorem
  FA Work-Kinetic Energy Theorem (Problem)

  2 Days Late
- 2. Worksheet Textbook C6 PP #35-37 -> Hooke's Law Textbook C6 PP #38-40 Hooke's Law and E<sub>e</sub> Worksheet Textbook C6 PFU #16-17, 20, 23-25, 27-28(a-c), 30-31 Worksheet Types of Energy and Work-Energy Theorems(D2017)
- 3. Investigation 6-A: Force and Spring Extension

3. A 53 kg person steps off of a desk. If the impulse the floor exerts on the person is 257 kgm/s upward, what is the height of the desk? (8)

5. A 0.140 kg baseball moving rightward is hit by a baseball bat. The baseball leaves the bat with a speed of 30.0 m/s in the opposite direction. If the average force on the ball was 642 N leftward and the bat was in contact with the bat for 12.0 ms, what was the initial momentum of the baseball? (7)

initial momentum of the baseball? (1)

$$V_1 = +?$$
 $V_2 = +?$ 
 $V_3 = +?$ 
 $V_4 = -30.0 \text{ pm/s}$ 
 $V$ 

# Physics 122 Friday, May 17/19

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#### Submit FA duo-tangs Friday.

1. Questions?

Worksheet - Pendulums -> Text: C13 Page 614, PP #5-8

Text: C13 Page 623, PFU #28

Worksheet - Text: Page 608, PP #1-4(Mass on a Spring)

Text: Page 623, PFU #23-27, 30 (Mass on a Spring and Pendulums)

Worksheet: SHM - Problems

2. FAs - SHM -> Tuesday

### Science 122 Friday, May 17/19

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- 1. Check:
  - BLM 16-1: Right-Hand Rules
- 2. Worksheet MC Magnetic Fields and Hand Rules
- 3. Electric Motors
- 4. Calculating Strength of a Magnetic Field
- 5. Worksheet Magnetic Field Produced by a Wire
- 6. The Force On A Wire Due To A Magnetic Field
- 7. Worksheet The Force On A Wire Due To A Magnetic Field
- 8. Force on a Single Charged Particle
- 9. Modified Hand Rule #3
- 10. Worksheet Magnetic Force on a Single Charged Particle

# Science 10 Friday, May 17/19

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- 1. SA Physics #1
- 2. Slope Horizontal and Vertical Lines
- 3. Physical Quantities
- 4. Distance Vs Time Graph
- 5. Slope of Distance vs Time Graph
- 6. Worksheets Distance vs Time Graphs
- 7. Roller Coasters