

## Science 10

Wednesday, May 16/18

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Roller Coaster: Due: Friday, June 1/18

Optional Assignment - Graphing Characters (Max. 2)

- Due: Friday, June 1/18

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1. Check:  
Worksheets - Average Speed Problems
  2. SA - Physics #2 -> Friday, May 18/18  
-> Topics
  3. Review - SA: Physics #2
  4. Roller Coasters
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## Topics - SA: Physics #2

1. Plot and label points in the four quadrants.
2. Write the coordinates of a plotted point.
3. Determine the slope of a line using:

$$m = \frac{\text{rise}}{\text{run}} \quad \text{OR} \quad m = \frac{y_2 - y_1}{x_2 - x_1}$$

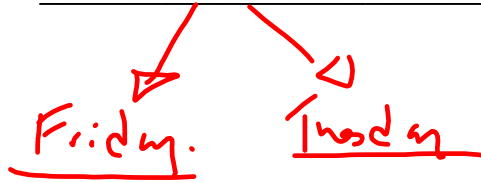
4. Draw and label a distance vs. time graph.
5. Be able to determine the speed of an object from a distance vs. time graph.  $\rightarrow$  slope.
6. Match a graph to a story/interpret a graph.
7. Answer questions about distance vs. time graphs.
8. Solve average speed problems.  $\rightarrow$

## Physics 112

Wednesday, May 16/18

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1. Return Justifications -> FA - Momentum, Impulse and Impulse-Momentum Theorem
  2. Review:  
SA - U2S3 (Momentum, Impulse, Momentum-Impulse Theorem)
  3. Check:  
Worksheet - Work is Done and Not Done (PP #4-10)
  4. Positive and Negative Work
  5. Worksheet - Positive and Negative Work
  6. SA - U3 S1 -> To Be Determined



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7. U3 - S2: Types of Energy and Work-Energy Theorems
  8. Concepts U3S2
  9. Types of Energy
  10. Kinetic Energy
  11. Work-Kinetic Energy Theorem
  12. Worksheet: C6 PP #19-21 -> Kinetic Energy  
C6 PP #22-25 ->  $E_k$  and Work-  $E_k$  Theorem

## Physics 122

Wednesday, May 16/18

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1. Check:  
Worksheet - Horizontal Projectile Problems: PP #1-8
2. Submit: FA - Horizontal Projectile
3. Worksheet - C11, Text 543, PP #9-12  
Worksheet - Text: Page 549, PP #13  
Page 570, Prob. #17, 19, 20 (omit graph)  
Worksheets - Mixed Problems

## Science 122

Wednesday, May 16/18

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1. Return FAs

2. Check:

Worksheet - Magnetic Field Produced by a Wire

Worksheet - Force on a wire in a Magnetic Field

Worksheet - Magnetic Force on a Single Charged Particle

Worksheet - Magnetic Fields and Circular Paths

Worksheet - Circular Trajectories and Applications

Worksheet - Red Text: PP, Applying Concepts and Problems

Worksheet - Conducting Rods and Lenz's Law

Worksheet - Transformers

3. SA - Magnetism -> Wednesday, May 23/18