Science 10

Tuesday, May 15/18

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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 -> Thursday, May 17/18
   -> Topics

3. Review - SA: Physics #2

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. → slope.
6. Match a graph to a story/interpret a graph.
7. Answer questions about distance vs. time graphs.
8. Solve average speed problems. 4

Physics 112

Tuesday, May 15/18

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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

Tuesday, May 15/18

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1. Check:
   Worksheet - Horizontal Projectile Problems: PP #1-8

2. 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

4. SA - U2S1 -> Postpone → * U2 S2 Circular Motion

Formative Assessment - Horizontal Projectile

A ball rolls off a table with a speed of 3.20 m/s and hits the floor 0.553 s later. What was the velocity of the ball 0.319 s after leaving the table?

Science 122

Tuesday, May 15/18

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1. Return Yesterday's FAs - Tomorrow!

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

3. Self-Inductance and Mutual Inductance

4. Transformers

5. Worksheet - Transformers

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