

Science 10

Friday, May 25/18

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Roller Coaster: Due: Friday, June 1/18

Optional Assignment - Graphing Characters (Max. 2)

- Due: Friday, June 1/18

1. SA - Physics #2 - Still to be written by some.
 2. [Worksheet: Constant and Average Velocity Problems](#)
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3. Resultant Displacement
 4. Average Velocity
 5. Worksheet: Constant and Average Velocity Problems
 6. Position vs Time Graphs
 7. Worksheets - Position vs Time Graphs

Physics 112

Friday, May 25/18

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1. FA - E_k and Work- E_k Theorem
 2. Sample Problem - Continue
 3. [Worksheet: C6 PP #27 and 29 -> Grav. Pot. Energy](#)
[C6 PP #30-33 -> W- \$E_g\$ Theorem](#)

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4. Restoring Force
 5. Hooke's Law
 6. Elastic Limit
 7. Model Problem
 8. Elastic Potential Energy
 9. Model Problem
 10. Worksheets:
 - Textbook - C6 PP #35-37 -> Hooke's Law
 - Textbook - C6 PP #38-40 - Hooke's Law and E_e
 - Textbook - C6 PFU

FA - Kinetic Energy and Work-Kinetic Energy Theorem

A 80.3 kg student wearing frictionless roller skates moving at 1.2 m/s on a horizontal surface is pushed by a friend with a constant force of 45 N.

- a) How far must the student be pushed so that her final kinetic energy is 352 J?
- b) What was the speed of the student after traveling the distance calculated in (a)?

Physics 122

Friday, May 25/18

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1. FA - Horizontal Circular Motion - Submit
2. SA: U2 - S1 and S2 - Tuesday, May 29
3. Kepler's Three Laws of Planetary Motion - Experiment 8.1
Due: Thurs → May 29 (at the latest)
4. Handout - Kepler's Laws
5. Worksheet - Kepler's Third Law Problems

Science 122

Friday, May 25/18

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1. Check:
Worksheet: #63 - Building Redox Tables
2. FA - Build a Table of Redox Half-Reactions
3. Handout: Table of Redox Half Reactions
4. 5 Steps For Predicting Redox Reactions
5. Worksheet: #64
6. Oxidation Numbers/States
7. Rules for Assigning Oxidation Numbers
8. Worksheet - Assigning Oxidation Numbers

FA - Build a Table of Redox Half-Reactions

