Physics 112

Friday, December 7/18

- http://mvhs.nbed.nb.ca/
 http://mvhs-sherrard.weebly.com/
- 1. Redo SA U2S3 -> Noon Today
- 2. Return and Review: FA Work -> Deadline: Monday, Dec. 10/18
- 3. SA U3S1 Work: <u>Tuesday, Dec. 11/18</u>
 Format: Fill in the Blanks See Examples Next Page
 4-5 Problems
- 4. U3S2 Types of Energy and Work-Energy Theorems Concepts*
- 5. Types of Energy
- 6. Kinetic Energy
- 7. Work-Kinetic Energy Theorem To Be Continued
- 8. Worksheet -C6 PP #19-21 -> Kinetic Energy C6 PP #22-25 -> E_k and Work- E_K Theorem
- 9. FA Kinetic energy and Work-F_k Theorem TBD

Physics 112 Work, No Work and Types of Work

2. A joule, J, expressed as a combination of base units is 3. Force is a quantity. 4. The force of gravity does work on the ball of paper as it falls into the garbage can.	26
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ρ_{i} , ρ_{i}	י) ני
5. Only a force to the motion of an object can possibly do work on the object.	
6. Work is a measure of 2 h 3 most transfer. * 7. Positive work done on an object 5 c c senergy to the object.	
7. Positive work done on an object 4 dd 9 energy to the object.	
8. The floor applies a normal force to the wheels of the cart. The normal force does work on the wheels of the cart as the man pushes the cart to the left.	he
9. Consider displacement and work. Wirk is the scalar quantity.	
10. "When a horizontally accelerating object experiences an applied force and force of friction, the net force accepts the object does work." This statement is + A - I + A - I + =	ting Ma
11. A man carries a box of decorations across his living room to his Christmas tree.	
a) The force of gravity does work on the box.	
b) The force applied by the man's hands to the sides of the box does	

Physics 122

Friday, December 7/18

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- 1. FA SHM: Pendulum Deadline: Thursday, December 6/18
- 2. FA SHM: Mass on a Spring Deadline: Mond., Dec. 10/18
- 3. Worksheet Horizontal Projectiles: C11, Text 536, PP #1-8
- 4. FA Horizontal Projectiles Available but not officially assigned.
- 5. Projectile Fired at an Angle Actual vs Theoretical Path
- 6. Projectile Motion at Various Initial Angles
- 7. Special Case
- 8. Formulas: Projectile Launched At an Angle
- 9. Other Possible Trajectories
- 10. Worksheet Projectiles Fired at an Angle
 - C11, Text 543, PP #9-12

Worksheet - Projectiles Fired at an Angle

- C11, Text 549, PP #13, PP #14 (Level 1)
- C11, Text 570, PFU #17, 19, 20 (omit graph)

Science 10 Friday, December 7/18

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- Science Articles Complete 8 by the end of the semester.
 Optional Assignment Graphing Characters (Max. 2)
 Due: Dec. 21/18
- 2. Return -> FA Graphing Basics
- 3. Physical Quantities
- 4. Distance vs Time Graph
- 5. Slope and Speed
- 6. Worksheets Distance vs Time Graph
- 7. Graph Matching
- 8. Average Speed
- 9. Problem Solving Strategy
- 10. Problem Solving Template
- 11. Examples: Average Speed Problems