Science 10

Tuesday, June 5/18

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Roller Coaster: Due: Wednesday, June 6/18

- 1. Review SA Physics #3
- 2. SA Physics #3 wed .
- 3. Exam Topics and Practice Exam
- 4. Roller Coasters

Staple

Resource Packet <a>/

Topics - SA Physics #3

- 1. definitions: physical quantities, scalar quantity, distance, time, speed, average speed, vector quantity, reference point, magnitude, direction, position, displacement, velocity, resultant displacement, average velocity, acceleration, uniform motion, uniformly accelerated motion
- 2. symbols and units for physical quantities
- 3. rearrange an equation for a specified variable
- 4. perform metric conversions using conversion factors
- 5. use rise and run to determine the slope of a line
- 6. (i) draw and label a distance vs. time graph
 - (ii) answer questions about distance vs. time graphs
- 7. (i) draw and label a position vs. time graph
 - (ii) answer questions about position vs. time graphs
- 8. (i) draw and label a velocity vs. time graph
 - (ii) answer questions about velocity vs. time graphs
- 9. draw a velocity-time graph for a given position-time graph
- 10. describe the motion of an object by comparing the directions of the object's velocity and acceleration
- 11. provide full solutions for the following types of word problems:
 - (i) average speed
 - (ii) displacement
 - (iii) constant velocity
 - (iv) average velocity
 - (v) acceleration

Physics 112

Tuesday, June 5/18

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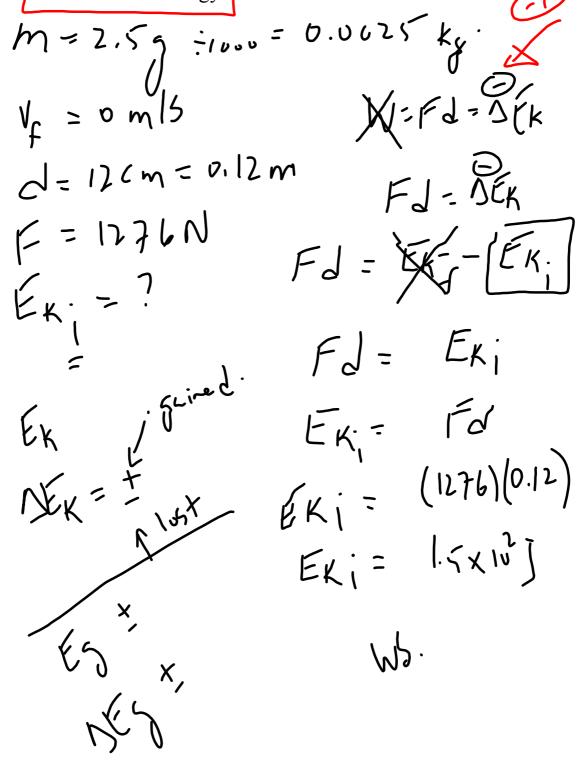
- 1. Exam Review Problem #7 and #8 -> See Next 2 Pages
- 2. Last Set of Worksheets
- 3. SA Types of Energy, Work-Energy Theorems and Energy ConservationWednesday, June 6/18
- 4. Switcheroo (Optional) Thursday
- 5. Exam Format + Review (Problems and MC)

Formula Sheet: $ME = E_k + E_g + E_e$

Exam Review - Work-Energy Theorem

#7 June 5

A 2.5 g bullet hits a tree and slows uniformly to a stop while penetrating a distance of 12 cm into the tree's trunk. If a force of magnitude 1276 N was exerted on the bullet to bring it to rest, what was the initial kinetic energy of the bullet?



A pendulum bob is released from some initial height such that the speed of the bob at the bottom of the swing is 1.9 m/s. What is the initial height of the bob?

Physics 122

Tuesday, June 5/18

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- * Changes made to exam outline. (MC = 20, Prob = 10 - Circ. and Rel. Vel no longer a choice)
- * FA for last section instead of SA.
 - 1. Worksheets Speed, Period, Etc.
 - 2. FA Problems from Last Section
 - 3. Last Semester's SAs for Exam Review
 - 4. Day for Switcheroo 3 Problems:

Science 122

Tuesday, June 5/18

- http://mvhs.nbed.nb.ca/
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- 1. Science 122 Exam Topics and Format
- 2. Chemistry 30:Unit 6: Redox Reactions and Electrochemistry
- 3. Last Assessment -> FA