

Science 122

Friday, November 4/16

Midterm - Tuesday, Nov. 15/16

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1. Check -> Worksheet - Archimedes' Problems

2. Review - Hydrostatics

3. Summative Assessment - Hydrostatics

- Wed. Next Week. Nov. 9

Physics 112

Friday, November 4/16

Midterm - Wednesday, Nov. 9/16

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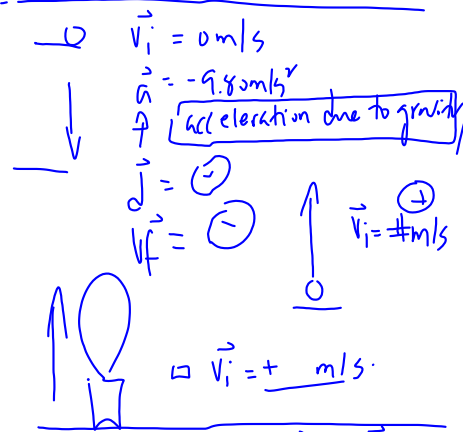


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1. Conference Schedule
 2. Midterm - Questions?
 3. Check -> Text - C10 - Page 485: PP#19-21
 4. Atwood's Lab - Outline
 5. Newton's Third Law of Motion
 6. Midterm Review
-
7. U2S3 - Introduction to Momentum
 - Momentum
 - Impulse

Physics 112
Midterm Outline

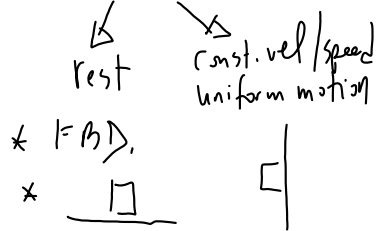
1. Find \vec{R} analytically. (rubric) reverses.
2. Answer questions re a velocity-time graph. \rightarrow max \vec{v}
3. Solve a freely falling body problem. max v .
4. Solve a first law problem.
5. Solve two second law problems

$\vec{a} = -2.0 \text{ m/s}^2$ $\left\{ \begin{array}{l} d, d \\ \text{ave speed} \\ \text{ave vel.} \\ \text{ave acc} \end{array} \right.$
 2.0 m/s^2



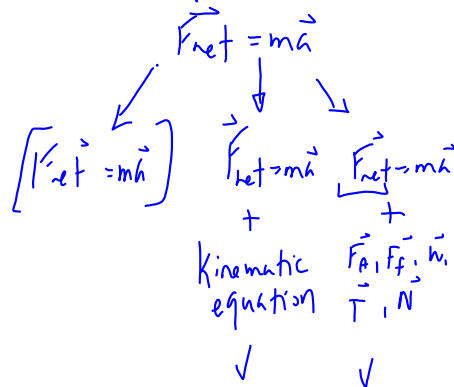
$\vec{v}_f = \vec{v}_i + a\vec{t}$
 $\vec{v}_f = \vec{v}_i + 2a\vec{d}$
 $\vec{v}_f = \sqrt{\vec{v}_i^2 + 2a\vec{d}}$
 $\vec{v}_f = \oplus$ the final vel
 $\text{WS} \gg \text{WS looks down}$

Newton's First Law



Newton's Second Law

* Acceleration
(speeding up / slowing down)



Physics 122

Friday, November 4/16

Midterm - Tuesday, Nov. 8/16

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1. Return -> SA - U1 S3&4 -> Monday
2. Midterm - Questions?
3. Experiment 9.1 - Conservation of Momentum (Page 55)
- Due - Monday, Nov. 7/16

4. Unit 2 - Section 1 - Projectiles

Science 10

Friday, November 4/16

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1. Questions? Worksheet - Rearranging Formulas
2. Physics - Quiz #1- Topics
- Wednesday, Nov. 9/16
3. Rubric - Roller Coasters
4. Metric Conversions
5. [Worksheet - Metric Conversions - HW - First Sheet](#)

Science 10
Physics - Quiz #1

1. definitions: physics, kinematics, linear motion, physical quantity, SI System, defining equation
2. base units of distance, time and mass
3. determine a measurement's number of significant digits
4. round measurements to a specified number of SDs
5. use the Certainty and Precision Rules
6. rearrange equations for a specified variable
7. perform metric conversions

$$v = \frac{d}{t} \quad [t]$$

$$v_f = v_i + at \quad [a]$$

$$L = \frac{1}{2} at^2 \quad [K]$$

$$[x]$$