

March 31 Gradekeeper Type Report

April 1 AM PT *No Sch w/f.*

April 13 (Wed.) Report Cards

April 14 (Thur.) Evening PT

## Physics 112

Wednesday, March 16/16

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### Explain That Stuff - March 18/16

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1. Velocity-Time Graphs - Examples - To Be Continued  
- Worksheets

2. Quiz - Velocity-Time Graph -> **Friday, March 18/16**

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3. Unit 1 - Section 3 -> Mathematical Analysis

4. Checklist - Word Problems

5. Kinematic Equations

6. Worksheet - Motion Problems

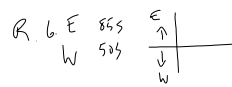


- R 1. max. speed 24 m/s
- R 2. max. vel. 24 m/s, W
- R 3.  $v_x$  only 15 s
- R 4. a) 12 m/s, E  
b) 12 m/s, W

C. 5.  $x \rightarrow \hat{k} \Rightarrow$  slope

A)  $t = 5 \text{ s}$

$(x_1, y_1) = (0, 0)$      $(x_2, y_2) = (10, 18)$   
 $t_1, v_1$      $t_2, v_2$   
 $m = \frac{y_2 - y_1}{x_2 - x_1}$   
 $\hat{a} = \frac{18 - 0}{10 - 0} = 1.8 \text{ m/s}^2$      $(1.8 \text{ m/s}^2 \text{ E})$   
 $m = \frac{y_2 - y_1}{x_2 - x_1}$



C. 7. final displ. = total disp  
 $\times$  Area

$A_1 = \frac{1}{2} (a+b)h$   
 $A_1 = \frac{1}{2} (35 + 10)18 = 405 \text{ m}$

$A_2 = \frac{1}{2} (50 + 20)(24) = 840 \text{ m}$

$A_3 = \frac{1}{2} (25 + 5)10 = 150 \text{ m}$   
 $A_3 = 20 \text{ m}$

$A_4 = \frac{1}{2} (5 + 35)10 = 225 \text{ m}$

C.  $\vec{d} = A_1 - A_2 + A_3 + A_4$   
 $d = 190 \text{ m, E}$

C. b  $d = A_1 + A_2 + A_3 + A_4$   
 $d = 1870 \text{ m}$

C. 9. average velocity =  $\frac{\text{displacement}}{\text{time}}$   
 $\vec{v}_{ave} = \frac{\vec{d}}{t}$

$\vec{v}_{ave} = \frac{+190 \text{ m}}{15 \text{ s}}$

$\vec{v}_{ave} = 12.7 \frac{\text{m}}{\text{s}}$   
 $(12.7 \frac{\text{m}}{\text{s}} \text{ E})$

b. ave. speed =  $\frac{\text{distance}}{\text{time}}$

$v_{ave} = \frac{d}{t}$

$(25, 12) \cdot (12.7, 12.7)$

$v_{ave} = 12.5 \text{ m/s}$

11.  $(x_1, y_1) \quad (x_2, y_2)$

12. ave vel =  $\frac{\vec{d}}{t}$      $\left[ \begin{matrix} t = 86 \text{ s} \\ t = 95 \text{ s} \end{matrix} \right]$

$= \frac{640 \text{ m}}{50 \text{ s}}$

$= 12.8 \text{ m/s}$   
 $(12.8 \text{ m/s NW})$

## Science 122

Wednesday, March 16/16

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1. Quiz - Magnetic Forces and Circular Paths  
- Friday, March 18/16
2. Check -> Red Text: Page 518, Practice Problems #1, #2, #3  
Page 531, Applying Concepts #1, 2, 8, 10  
Page 532, Problems #3, #5, #8, #9

### Worksheet - Conducting Rods and Lenz's Law

3. Self-Inductance
4. Mutual Inductance
5. Transformers
6. [Worksheet: Transformers - HW](#)

## Science 10

<http://mvhs.nbed.nb.ca/>

Wednesday, March 16/16

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1. Check -> Worksheet: Identifying Types of Chemical Reactions

2. Quiz - Identifying and Balancing Chemical Reactions

- Friday, March 18/16

3. Questions re Chemical Reactions - Will Check Tomorrow

4. Translating Word Equations to Chemical Equations

5. Worksheet: Word Equations to Chemical Equations -> HW

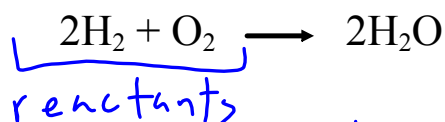
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6. Predicting Products

7. Worksheet: Predicting Products

Questions re Chemical ReactionsTest  
Question

Answer the following questions about the chemical reaction shown below:



1. What are the reactant(s)?  $\text{H}_2$  and  $\text{O}_2$  numerical
2. What is the product(s)?  $\text{H}_2\text{O}$  coefficient
3. What do we call the number "2" in front of the  $\text{H}_2$  and  $\text{H}_2\text{O}$ ?
4. Is the reaction balanced? Yes.
5. How many hydrogen atoms are needed to produce two water molecules? 4
6. How many oxygen molecules are needed to produce two water molecules? 1



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## Explain That Stuff - March 18/16

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1. Check -> Worksheet - Static Torque #1  
Worksheet - Static Torque #2
  2. Assignment: U1 - S2 -> Static Torque  
**Thursday, March 17/16**
  3. U1 - S3 -> Relative Velocity
  4. Velocities - Parallel  
- Perpendicular - To Be Continued
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