March 01, 2016 Plan - M1 T.notebook

March 31 Gradekeeper Type Report

April 1 AM PT No School April 13 (Wed.) Report Cards

April 14 (Thur.) Evening PT

## Physics 112

Tuesday, March 1/16

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# Explain That Stuff - March 4/16

- 1. Meetings -> Quiz Basic Skills
- 2. FA Determine  $\overrightarrow{R}$  Analytically
- 2. Time, Speed, Velocity, Acceleration
- 3. Directions of Velocity and Acceleration To Be Continued
- 4. Types of Motion: Uniform and Uniformly Accelerated Motion
- 5. Assignment: U1-S1 -> March 4/16
- 6. Unit 1 Section 2: Graphical Analysis
- 7. Position-Time Graphs



# Formative Assessment - Find **R** Analytically Tuesday - March 1/16

Two acceleration vectors are 22.6 m [W] and 37.0 m [N]. Find their resultant analytically. ( math A = 22.6 m [w] B = 37.0 m [N]R = 43.4 m, 58.6 N of W 31.4 W of N

#### Topics: Assignment U1-S1

- 1. kinematics
- 2. two types of physical quantities:
  - (i) scalar quantity has magnitude only
    - has units
    - be able to name and give examples of four scalar quantities
  - (ii) vector quantity has magnitude and direction
    - has units
    - vector notation
    - conventional directions
    - be able to name and give examples of four vector quantities
- 3. arrows are used to represent vector quantities graphically
- 4. resultant
- 5. two methods used to add vector quantities:
  - (i) tip-to-tail method
  - (ii) parallelogram method
- 6. use rubric to determine a resultant graphically
- 7. use rubric to determine a resultant analytically
- 8. be able to determine the range of possible resultant values given the magnitudes of two vectors and/or the angles between them
- 9. a) two types of frames of reference:
  - (i) stationary/fixed
  - (ii) moving
  - b) determine whether one object is moving relative to another
- 10. motion vocabulary and definitions
- 11. use signs of velocity and acceleration to describe an object's motion, etc (ie/ van scanario)
- 12. two types of motion
  - (i) uniform
  - (ii) uniformly accelerated motion

Format: Multiple Choice (MC)

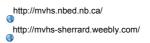
Short Answer

Chart (ie/ van)

Find  $\vec{R}$  graphically or analytically



Science 122 Tuesday, March 1/16



1. Quiz - Start to Electric Motors

FIILBSinD

- 2. Worksheet: The Force On A Wire In a Magnetic Field Worksheet: Magnetic Force on a Single Charged Particle
- 3. Trajectory of A Single Charged Particle in a Uniform Magnetic Field
- 4. Worksheet: Magnetic Fields and Circular Paths

#6. electrons
$$g = 1.60 \times 10^{19} C$$

$$E_{K} = K = 2.40 \times 10^{15} J$$

$$G = 2.00 \times 10^{15} T$$

$$G = 7$$

$$F = 9 V B sin \theta$$

$$MQ = 9 V B sin \theta$$

$$Me = 9 V$$

$$V = 1 M V^{2}$$

$$V = 1 M V^$$

### Science 10 Tuesday, March 1/16

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

- 1. Return -> Assignment Mixed Compounds
- 2. Second Attempt Thursday at Noon- Must Get Extra Help Tuesday or Wednesday
- 3. Check -> Worksheet Balancing Chemical Reactions #1
- 4. Worksheet Balancing Chemical Reactions #2
- 5. Types of Chemical Reactions
- 6. Synthesis/Formation Reactions To Be Continued
- 7. Decomposition Reactions
- 8. Worksheet: Formation and Decomposition Reactions
- 9. Single Replacement Reactions
- 10. Double Replacement Reactions
- 11. Worksheet: Single and Double Replacments Reactions

# Physics 122

Tuesday, March 1/16

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# Explain That Stuff - March 4/16

- 1. Center of Mass Fosbury Flop
- 2. Types of Motion
- 3. Torque
- 4. Net Torque
- 5. Static Equilibrium Revisited
- 6. Static Torque Problems To Be Continued