

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

Tuesday, March 29/16

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1. Check -> Worksheet - Motion Problems
2. Freely Falling Bodies - Continue
3. [Worksheet - Freely Falling Bodies- HW](#)
4. Assignment: U1-S3 -> Thursday, March 31/16
5. Test - Unit 1 -> Wednesday, April 6/16  
See the outline on the next two pages.

## Topics: Test Unit 1

1. kinematics
2. two types of physical quantities:
  - (i) scalar quantity - has magnitude only
    - examples of scalar quantities
  - (ii) vector quantity - has magnitude and direction
    - examples of vector quantities
    - know which directions are positive and which are negative by convention
3. arrows are used to represent vector quantities
4. definition of 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. two types of frames of reference:
  - (i) stationary/fixed
  - (ii) moving
9. motion vocabulary and definitions
10. use signs of velocity and acceleration to describe an object's motion, etc
11. two types of motion
  - (i) uniform
  - (ii) uniformly accelerated motion

## Topics: Test Unit 1 (Continued)

12. position-time graphs - interpret graphs
  - identify type of motion
  - slope = velocity
  - determine if/when an object changes direction
13. velocity-time graphs - interpret graphs
  - identify type of motion
  - slope = acceleration
  - area -> distance and displacement
  - be able to calculate average speed, average velocity and average acceleration
  - identify if/when an object changes direction
14. word problems - follow checklist to obtain full value
  - uniform motion - 1 formula
  - uniformly accelerated motion - 4 formulas
  - quadratic formula
15. acceleration due to gravity - influenced by mass of planet and distance from planet
  - symbol ->  $\vec{g}$
  - on Earth  $\vec{g} = -9.80 \text{ m/s}^2$
  - assuming no air resistance when working with freely falling bodies
  - interpret ball toss graphs



## Science 122

Tuesday, March 29/16

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1. Return Marks -> Test - Magnetism
  2. Refraction
  3. Plane Mirrors and Ray Diagrams
  4. Spherical (Curved) Mirrors and Ray Diagrams
  5. Concave Mirrors and Ray Diagrams

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6. Worksheet - Concave Mirror - Ray Diagrams
  7. Convex Mirrors and Ray Diagrams
  8. Mirror Equation
  9. Magnification Equation

## Science 10

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

Thursday, March 29/16

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1. Return Marks -> Test - Chemistry
  2. Lab - Types of Reactions, Gas Collection and More  
- 1 Day Late
  3. Unit 2 - Motion
  4. Physics, Kinematics and Linear Motion
  5. Physical Quantities
  6. SI System of Units
  7. SI Base Units and Derived Units
  8. Certainty and Significant Digits
  9. Counted and Defined Values
  10. Rounding Values
  11. [Worksheet - Page 349 -> Do #1-4 -> HW](#)
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12. Certainty Rule for Multiplying and Dividing Measurements

## Physics 122

Tuesday, March 29/16

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1. Check -> [Worksheets - Relative Velocity Problems](#)
  2. [Worksheet: 1D Collisions](#)
  3. Types of Collisions
  4. [Worksheet - Collisions: Elastic and Inelastic](#)

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5. 2D Collisions