April 13 - Report Cards Go Home (Wednesday)

April 14 - Parent-Teacher (Thursday)

April 29 - Professional Learning Day (Friday)

May 5 - NBTA Meetings (Thursday)

May 6 - NBTA Council Day (Friday)

May 23 - Victoria Day (Monday)

Physics 112 Monday, April 4/16

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Explain That Stuff - April 8/16 Midterm - April 21/16

- 1. Return and Review -> Assignment: U1-S3
- 2. Test Unit 1 -> Wednesday, April 6/16

 See the outline on the next two pages.

 MC and Problems
- 3. Unit 2 Dynamics
 - Section 1: Types of Forces and FBD's
 - Dynamics
 - Force, Net Force
 - Five Specific Forces
- 4. Worksheet Practice Problems (PP) C4 Page 137: 1-4 HW

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 -> \overrightarrow{g}
 - on Earth \overrightarrow{g} = -9.80 m/s²
 - assuming no air resistance when working with freely falling bodies
 - interpret ball toss graphs



Science 122 Monday, April 4/16

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Midterm - April 28/16

- 1. Quiz Tuesday -> Ray Diagrams for Spherical Mirrors
- 2. Check Example Part (a)
- 3. Magnification Equation
- 4. Worksheet: Red Text Spherical Mirrors -> HW
- 5. Lenses
- 6. Convex Lens
- 7. Images Formed by Convex Lenses
- 8. Worksheet: Convex Lens Ray Diagrams
- 9. Concave Lenses and The Images They Form
- 10. Lens Equation, Magnification and Sign Conventions

Science 10

Monday, April 4/16

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- Lab Types of Reactions, Gas Collection and More
 3 Days Late
- 2. Rearranging Equations -> Worksheet 1st Column HW
- 3. Metric Conversions -> Worksheet 1st Column HW
- 4. Experiment: Measurement and Significant Digits
 - To Be Continued
 - Each person submits a lab sheet for marking.
 - Tuesday, April 5/16
- 5. Quiz Start of Physics to the End of Metric Conversions More Information Tomorrow Tentatively Thursday

Physics 122 Monday, April 4/16

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Explain That Stuff - April 8/16

1. Check -> Worksheets -> Relative Velocity Problems

Worksheet -> 1D Collisions

Worksheet -> Collisions: Elastic and Inelastic

Worksheet -> 2D Collisions

Worksheet -> Physics 30 Worksheet #4

- 2. Assignment: U1-S3& 4 -> Tuesday, April 5/16 MC + P(3/2)
- 3. Test Unit 1 -> Friday, April 8/16
- 4. Experiment 10.2 Torques (Page 67)Experiment 9.1 Conservation of Momentum (Page 55)
- 5. Unit 2 Projectiles, Circular Motion, Law of Gravitation, SHM

Test Pub. -> Force -> push/puel > sign > inclined plane . Torque > State equilibrium 6 publems no angles / angles (1) Ionin /pab. helative Vel. > bout /place 1 > intersection Collisions | Expl -> 1> Lelastic/inelastic) -> 2D

Physics Labs

	Physics 112
	Physics 122
	/10
Title	
Date Due	
Recorder	
Team Members	

Title - Experiment 10.2 - Torques (Page 67)

Date Due -

Recorder -

Team Members - _____

Cove

Purpose - (1)

Materials - 2 retort stands (1)

- 2 right-angled clamps
- 1 support rod
- 1 meter stick
- 3 meter-stick clamps
- 2 spring scales (5 N capacity) * 2 e (0
- 500 g mass

Procedure - Refer to page 68 in the "Physics" lab manual. (1)

Observations and Data - Complete Table 1 (9) and 2 (6).

Analysis - Answer #1 (3)

#2(1)

#3 show three calculations (3)

- Add absolute value signs to numerator.

#4 (2)

#5 (2)

Total = /29 - > /10

Title - Experiment 9.1 - Conservation of Momentum (Page 55)

Date Due -

Cover

Recorder - _____

Team Members - _____

Purpose - (1)

Materials - (1)

Procedure - Refer to page 55 in the "Physics" lab manual. (1)

Observations and Data - Complete Table 1. (3)

Analysis - Answer #1 (2)

#2 Labeled sheet. (5)

#3 (2)

#4(1)

Total = /16 - > /10