

April 14 - Parent-Teacher (Thursday -> 4:00-6:00 pm)

April 29 - Professional Learning Day (Friday)

May 5 - NBTA Meetings (Thursday)

May 6 - NBTA Council Day (Friday)

May 23 - Victoria Day (Monday)

May 27 - Professional Learning Day (Friday)

Physics 112

Thursday, April 14/16

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*Library Books

Explain That Stuff - April 15/16

Midterm - April 21/16 (Thursday)

1. Return -> Assignment: U2-S1
2. Netwon's 1st Law Example -> To Be Continued
3. [Worksheet: C4 - Extra Practice - Weight and Friction - HW](#)

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4. Practice Problems (PP) - C4, Page 144: 5-7
PFU: Page 151, #26-28, 30-32, 34

Science 122

Thursday, April 14/16

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Midterm - April 28/16 (Thursday)

1. Check -> Red Text
 - > C18 - Page 381 - PP #14-16
 - Page 383 - PP #17-19
 - Page 387 - Review #1, 6, 9, 10, 12, 13
 - Applying Concepts #3-8
 - Problems #2, 4, 5, 7, 8, 9, 10, 13, 14

2. Lenses in Combination - Continue *worksheets (2)*

3. Review - Optics *(1)*

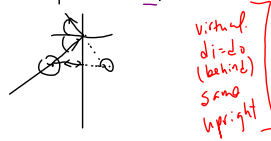
4. Test: Optics -> *Friday, Apr. 15/16*

-> 5 Ray Diag.

-> Prob.

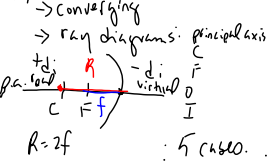
§ 17.2 Test: Optics
Topics

→ Ray diagram - plane mirror



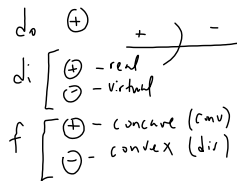
→ Spherical Mirrors

(1) Concave →



(2) convex
diverging
→ ray diagram: same labels
: 1 case.

→ Mirror Equation $\frac{1}{f} = \frac{1}{d_i} + \frac{1}{d_o}$
* sign conventions



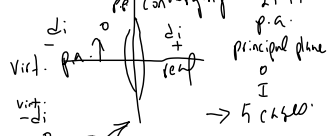
→ Magnification Formula

$$m = \frac{h_i}{h_o} = \frac{-d_i}{d_o}$$

hi + upright
hi - inverted
m ⊖ inverted
m ⊕ upright
m = 1 same
m < 1 less than
m > 1 greater than

→ Lenses : n → index of refraction.
shape

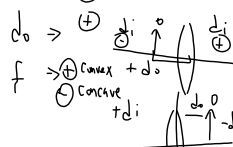
→ Lenses ① convex → ray diagrams



② concave → labels
diverging → 1 case.

→ Lensequation $\frac{1}{f} = \frac{1}{d_i} + \frac{1}{d_o}$

di → ⊖ virtual
→ ⊕ real



→ Magnification Eq.

$$m = \frac{h_i}{h_o} = \frac{-d_i}{d_o}$$

Format
→ Ray D.
→ Pab.

→ Double Lenses.

Science 10

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Thursday, April 14/16

1. Assignment - Distance vs Time Graphs
- Friday, April 15/16
 2. Average Speed - Sample Problems -> To Be Continued
 3. Try for HW
Worksheet: Distance, Time, Speed Practice Problems
Worksheet: Understanding Concepts - Page 358: #3-6, 8
*Page 358: #7, 9, 10
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4. Types of Physical Quantities
5. Position and Displacement
6. 100 Acre Wood

Topics: Assignment - Distance vs Time Graphs

1. plot points in the four quadrants
2. write the coordinates of a plotted point
3. record rise and run of a line
4. use rise and run to determine slope of a line

$$m = \frac{\text{rise}}{\text{run}}$$

5. use the slope formula to determine the slope of a line

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

6. answer questions for a given distance-time graph
7. type of motion: uniform motion - constant speed

Physics 122

Wednesday, April 13/16

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Explain That Stuff - April 15/16

Midterm - Tuesday - April 26

1. Experiment 10.2 - Torques (Page 67)
Experiment 9.1 - Conservation of Momentum (Page 55)
April 28/16
 2. Check -> Worksheet -> Text: Page 536, PP #1-8
 3. Formative Assessment - Horizontal Projectile
 4. Projectiles Fired at An Angle - To Be Continued
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