Science 10

Friday, February 23/18

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1. Check
   Worksheet #3 - Ionic Compounds Containing Polyatomic Ions
2. Transition Elements
3. Multivalent Metals and Their Ions
4. Ionic Compounds Involving Multivalent Metals
5. Nomenclature Worksheet #4 - Ionic Compounds Containing Transition Elements Practice

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6. Recap: Types of Ions
7. Examples: Types of Ions
8. Worksheet #5 - Ionic Compounds Summary

Physics 112

Friday, February 23/18

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1. Return -> FA - Calculating **R** Analytically
2. Learning Categories and Justifications
3. Request for Redo Forms/Evidence of Practice
   SA - Basic Skills - Attempt #2

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4. Velocity-Time Graphs
5. Velocity-Time Graph: Direction of Motion
6. Velocity-Time Graph Calculations
7. Worksheets - Velocity vs Time Graphs

Physics 122

Friday, February 23/18

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1. Return: FA - Type III - Inclined Plane (DE1.7)

2. Worksheet - Force Problems: Type I, II and III
   Worksheet - Extra Type1, II, and III Force Problems

3. FA - Type I, II and III (30minutes)

Science 122

Friday, February 23/18

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1. Check Review Concept and Application Questions from (old red)

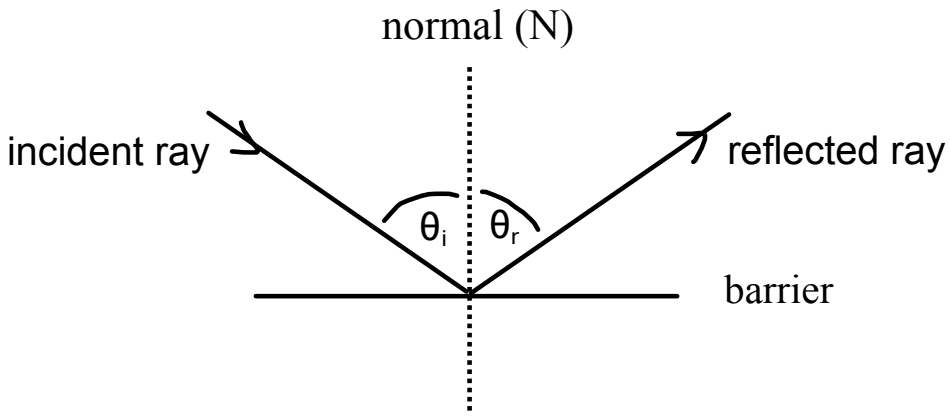
2. SA: Optics - Tuesday, Feb. 27/18
   - Optics - Concepts

2. Experiment 37 - Image Formation by a Converging Lens - P167

3. Worksheets - Lenses in Combination

Optics - Concepts

1. Reflection

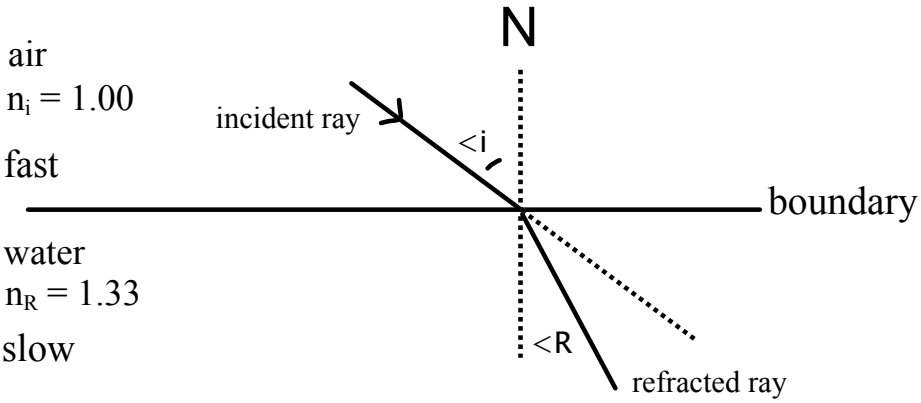


Law of Reflection

$\theta_i = \theta_r$

2. Refraction

$n_i < n_R$



$n = \frac{c}{v}$ $c = 3.00 \times 10^8$ m/s

Snell's Law

$n_i \sin i = n_R \sin R$

3. Plane (Flat) Mirrors

- labelled ray diagrams and POST

4. Spherical (Curved) Mirrors

Concave (Converging)

- 5 labelled ray diagrams and POST

Convex (Diverging)

- 1 labelled ray diagram and POST

5. Lenses

(1) index of ref.
(2) shape of lens

- 2 factors affecting focal length

Convex (Converging)

- 5 labelled ray diagrams and POST

Concave (Diverging)

- 1 labelled ray diagram and POST

6. Equations (Mirror/Lens and Magnification)

$$\frac{1}{f}=\frac{1}{d_i}+\frac{1}{d_O} \qquad m=\frac{h_i}{h_O}=\frac{-d_i}{d_O}$$

$R = 2f$ or $f = \frac{R}{2}$.

* Sign Conventions.

Extra Practice.