

Science 10

Tuesday, February 27/18

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1. Check
Worksheet #5 - Ionic Compounds Summary
 2. FA - Ionic Compound Maze
-
3. Covalent Bonds
 4. Diatomic Molecules
 5. Prefixes Used When Naming Molecular Compounds
 6. Rules for Naming Binary Molecular Compounds
 7. Some Common Names
 8. Worksheet - Binary Molecular Compounds #1
Worksheet - Binary Molecular Compounds #2
 9. Recap: Types of Compounds
 10. Ionic Compounds vs. Molecular Compounds
 11. Worksheet - Mixed Ionic/Covalent Compounds #1
Worksheet - Mixed Ionic/Covalent Compounds #2
 12. SA - Chem #1 - Topics
 13. SA - Chem #1 -> _____

Physics 112

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1. Return -> SA - Basic Skills - Attempt #2
2. Return -> Justified FAs - Calculating **R** Analytically
3. Worksheets - Velocity vs Time Graphs
- V/T Graph #1 - Continue
4. [V-T Graphs #2-4](#) -> [Work Block Tomorrow](#)

Physics 122

Tuesday, February 27/18

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1. FA - Type I, II and III - Submit
Return Marked/Justified FAs
 2. Type I - Static Torque - All Forces Vertical - Continue
 3. [Worksheet - Static Torque #1 - Practice](#)
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4. Type II - Static Torque - Some Force at Angles
 5. Worksheet - Static Torque #2

Science 122

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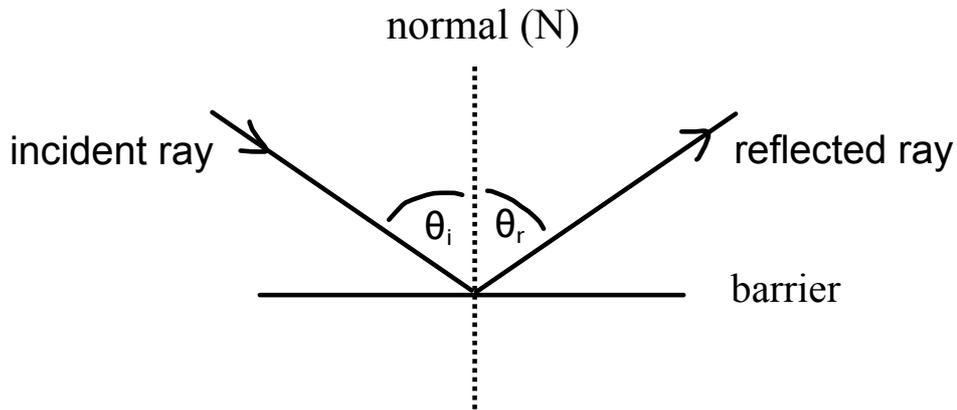
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1. Prep for SA: Optics If Writing After the Break
 2. Experiment 37 - Image Formation by a Converging Lens - P167
 3. **SA: Optics - Today or After the Break**
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Optics - Concepts

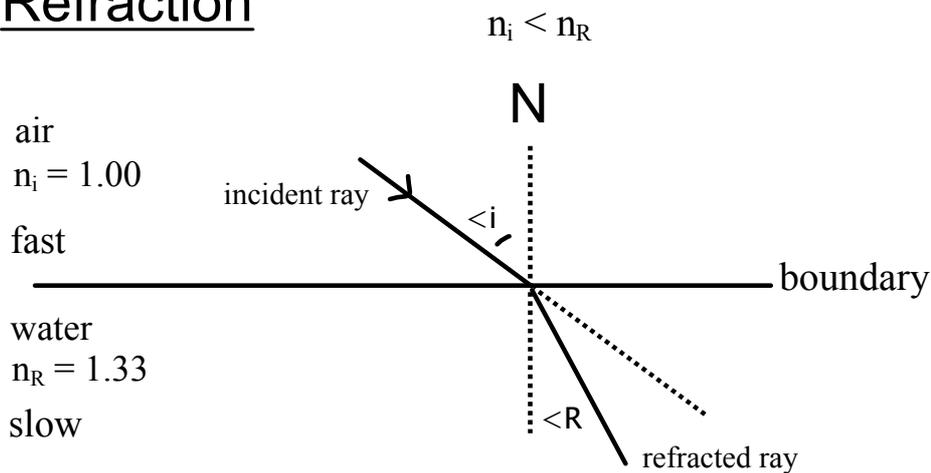
1. Reflection



Law of Reflection

$$\theta_i = \theta_r$$

2. Refraction



$$n = \frac{c}{v}$$

$$c = 3.00 \times 10^8 \text{ m/s}$$

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

- 2 factors affecting focal length

① index of ref.

② shape of lens

Convex (Converging)

- 5 labelled ray diagrams and POST

Concave (Diverging)

- 1 labelled ray diagram and POST

6. Equations (Mirror/Lens and Magnification)

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

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

$$R = 2f \quad \text{or} \quad f = \frac{R}{2}$$

* Sign Conventions