

### Light Refraction

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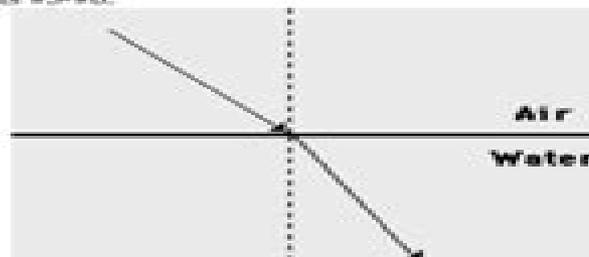
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**MOP Connection:** Refraction and Lenses: sublevels 1 and 2

1. Write a one-word synonym for **refraction**. \_\_\_\_\_
2. Refraction occurs when light crosses the boundary between one material and another material. What is the primary cause for this refracting of light upon crossing a boundary?

The diagram below shows the path of a light ray as it travels through air, across the air-water boundary, and through the water. Use the diagram to answer questions #3-#6.

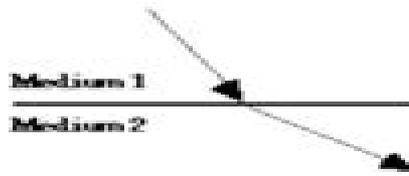
3. On the diagram, label —
  - the air-water boundary with a **B**
  - the normal line with an **N**
  - the incident ray with an **I**
  - the refracted ray with an **R**
  - the angle of incidence with a  $\theta_i$
  - the angle of refraction with a  $\theta_r$
4. How many media are there in this diagram? \_\_\_\_\_  
Name them.



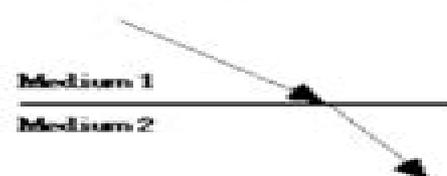
5. What is meant by the term "medium" in this context?
6. Place a noticeable dot at the location where refraction of light takes place.
7. For the three situations below, draw a normal line and measure and record the angles of incidence and the angles of refraction.



$\theta_i =$  \_\_\_\_\_  
 $\theta_r =$  \_\_\_\_\_



$\theta_i =$  \_\_\_\_\_  
 $\theta_r =$  \_\_\_\_\_



$\theta_i =$  \_\_\_\_\_  
 $\theta_r =$  \_\_\_\_\_

8. As light passes from one medium into another, it refracts. There is only one condition in which light will cross a boundary but not refract. State this condition.

# Lens Practice Physics Classroom Answers

**H Kauffman**



## **Lens Practice Physics Classroom Answers:**

American Book Publishing Record Cumulative, 1950-1977: Title index R.R. Bowker Company. Department of Bibliography, 1978

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British Books in Print, 1970

Answers to Your Biggest Questions About Teaching Secondary Science Karen Mesmer, Enya Granados, Kevin Gant, Laura Shafer, Ayanna D. Perry, 2024-01-16 Your guide to grow and flourish as a science teacher The past two decades have seen a paradigm shift in science education thanks in large part to the Next Generation Science Standards NGSS which advocate a move away from procedural lab investigations and direct instruction and toward increased emphasis on reasoning sensemaking phenomena exploration problem solving and collaboration Under this new paradigm students are learning real science as scientists practice it so that more and more students are actively investigating questions and pursuing solutions of their own making As part of the Five to Thrive series for early career educators this comprehensive guide provides those who are new to teaching science as well as seasoned teachers looking to enhance their practice the fundamentals to develop best teaching practices that reflect their students experiences and requirements Written by experienced science educators Answers to Your Biggest Questions About Teaching Secondary Science provides practical guidance on successful strategies and techniques for teaching science in a way that gives every student the opportunity to learn grow and achieve at high levels while providing opportunities to develop their agency and

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