

### Light Refraction

Read from Lesson 1 of the Refraction and Lenses chapter at The Physics Classroom:

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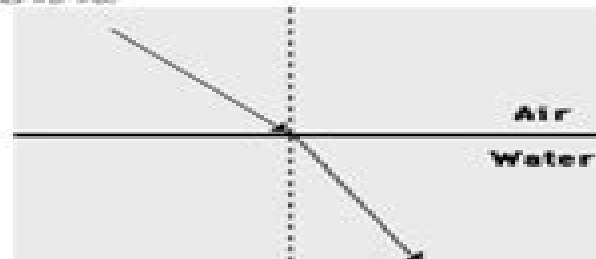
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**MOP Connection:** Refraction and Lenses: sublevels 1 and 2

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.

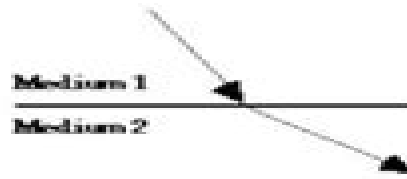


5. What is meant by the term "medium" in this context?
6. Place a noticeable dot at the location where refraction of light takes place.
7. For the three situations below, draw a normal line and measure and record the angles of incidence and the angles of refraction.



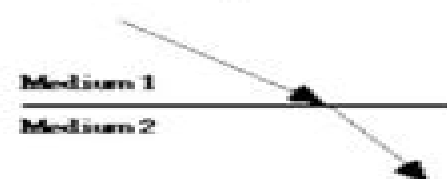
$\theta_i =$  \_\_\_\_\_

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



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

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



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

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

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.

# Refraction And Lenses Study Guide Answers

**CL Gary**



## **Refraction And Lenses Study Guide Answers:**

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