

## Online PhET Lab - Refraction of Light

### I. Introduction

In this activity you will be investigating how light is bent at the boundary between two materials and what determines the amount of bending. You will be using one of the simulations from PhET Interactive Simulations. The simulation is called **Bending Light** (HTML5). This is the link for the simulation: <https://phet.colorado.edu/simulations/bending-light>. For this activity you will use the **Mouse Tweaks** window. Keep the wavelengths of the light at 500 nm.

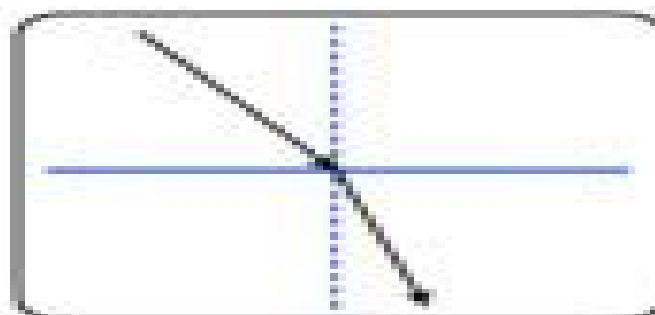


Steve Tiedje

**Vocabulary:** incident ray, refracted ray, angle of incidence, angle of refraction, angle of reflection, index of refraction, critical angle, total (internal) reflection, intensity

1.) The diagram below shows the path of a ray of light as it travels through air, across the air-water boundary, and through the water. Before using the simulation label the following items on the diagram:

- a) the air-water boundary with an **R**.
- b) the normal line with an **N**.
- c) the incident ray with an **I**.
- d) the refracted ray with an **R**.
- e) the angle of incidence with an  **$\alpha$** .
- f) the angle of refraction with a  **$\beta$** .



### II. Refraction, The Bending of Light

Refraction is the bending of light as it passes, at an angle, from a material with one index of refraction to a material with a different index of refraction. In the following investigations you will be exploring the factors that affect the refraction of light.

#### Investigation No. 1

Set the indices of refraction so that they are the same for both materials. Measure the angle of refraction for the following angles of incidence. Enter your chosen indices of refraction below.

Index of refraction top material:

Index of refraction bottom material:

angle of incidence ( $\alpha$ )	$0^\circ$	$30^\circ$	$45^\circ$	$60^\circ$	$90^\circ$
angle of refraction ( $\beta$ )					

# Refraction Phet Lab Answer Key

**Sasha Hu**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

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## **Table of Contents Refraction Phet Lab Answer Key**

1. Understanding the eBook Refraction Phet Lab Answer Key
  - The Rise of Digital Reading Refraction Phet Lab Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Refraction Phet Lab Answer Key
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Refraction Phet Lab Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Refraction Phet Lab Answer Key

- Personalized Recommendations
- Refraction Phet Lab Answer Key User Reviews and Ratings
- Refraction Phet Lab Answer Key and Bestseller Lists
- 5. Accessing Refraction Phet Lab Answer Key Free and Paid eBooks
  - Refraction Phet Lab Answer Key Public Domain eBooks
  - Refraction Phet Lab Answer Key eBook Subscription Services
  - Refraction Phet Lab Answer Key Budget-Friendly Options
- 6. Navigating Refraction Phet Lab Answer Key eBook Formats
  - ePub, PDF, MOBI, and More
  - Refraction Phet Lab Answer Key Compatibility with Devices
  - Refraction Phet Lab Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Refraction Phet Lab Answer Key
  - Highlighting and Note-Taking Refraction Phet Lab Answer Key
  - Interactive Elements Refraction Phet Lab Answer Key
- 8. Staying Engaged with Refraction Phet Lab Answer Key
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Refraction Phet Lab Answer Key
- 9. Balancing eBooks and Physical Books Refraction Phet Lab Answer Key
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Refraction Phet Lab Answer Key
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Refraction Phet Lab Answer Key
  - Setting Reading Goals Refraction Phet Lab Answer Key
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Refraction Phet Lab Answer Key

- Fact-Checking eBook Content of Refraction Phet Lab Answer Key
- Distinguishing Credible Sources

### 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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