

#### Student Exploration: Refraction

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Vocabulary: angle of incidence, angle of refraction, frequency, index of refraction, medium, refraction, Snell's law, total internal reflection, wave front, wavelength, wave speed

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

Two runners ran side by side, each holding one end of a horizontal pole.

What would most likely happen if one of the runners began jogging in knee-deep water?

If one of the runners began jogging in knee-deep water, the runner would slow down.

How would this affect the direction of the runners? Explain.

This would affect the direction of the runners because the runner on the dry ground would outpace the runner in the water.

#### Gizmo Warm-up

Light can travel through many materials, or media. As with a runner on pavement or sand, the speed of light can change when it moves into a different medium. The Refraction Gizmo allows you to observe what happens to a beam of light as it travels from one medium to another.



Turn off View wave fronts. Set Index of refraction 2 to 3.0.

- Click Play ( ). Observe the ray of light as it passes from Medium 1 to Medium 2.
  - A. What happens to the speed of the light wave?

The speed of the light wave got significantly slower as it passed from Medium 1 to Medium 2

B. What happens to the direction of the light wave?

The direction of the light waves changes. The wavelength decreases as the light enters the medium and the light wave changes direction.

The bending of the light ray you see is called **refraction**.

Click Reset ( 5) and turn on View wave fronts. A wave front is an imaginary line that connects the
crests or troughs of a wave. The wavelength of a wave is the distance between wave fronts.

# **Answer Key Refraction Gizmo Exploration Sheet**

Joacim Rocklöv

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## **Table of Contents Answer Key Refraction Gizmo Exploration Sheet**

- 1. Understanding the eBook Answer Key Refraction Gizmo Exploration Sheet
  - The Rise of Digital Reading Answer Key Refraction Gizmo Exploration Sheet
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Answer Key Refraction Gizmo Exploration Sheet
  - 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 Answer Key Refraction Gizmo Exploration Sheet
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Answer Key Refraction Gizmo Exploration Sheet

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

- Fact-Checking eBook Content of Answer Key Refraction Gizmo Exploration Sheet
- 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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