



Name:

Date:

Student Exploration: Basic Prism

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, critical angle, dispersion, index of refraction, medium, prism, refract, Snell's law, total internal reflection, visible spectrum, wavelength

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

A **prism** is a transparent object that can be used to bend, or **refract**, light. The photo below shows what happens when sunlight passes through a prism.



1. What do you see?

A prism/pyramid made of glass with white light entering from the left, and rainbow light escaping from the right

2. What does this indicate about the composition of sunlight?

Light is able to bend.

Gizmo Warm-up

The *Basic Prism* Gizmo allows you to investigate how a prism refracts light. The Gizmo shows a laser emitting a beam of light through a triangular prism.

To begin, check that **Single color beam** is selected, λ is 500 nm, n is 1.50, w is 2.0, and the angle (θ) is 0° .



1. What do you notice about the path of light when it passes through the prism?

the light curves downward when it passes through the prism.

2. Move the λ slider to increase and then to decrease the **wavelength** of the beam of light.

- A. How does this affect the color of the light ray?

the smaller the nanometer of light is, the darker the color.

- B. How does this affect the direction of the light ray?

the smaller the nanometer, the light starts to angle more downward, while the higher the nanometer, it starts to curve upward.

Explore Learning Gizmo Answer Key Basic Prism

KJ Lindholm-Leary



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Table of Contents Explore Learning Gizmo Answer Key Basic Prism

1. Understanding the eBook Explore Learning Gizmo Answer Key Basic Prism
 - The Rise of Digital Reading Explore Learning Gizmo Answer Key Basic Prism
 - Advantages of eBooks Over Traditional Books
2. Identifying Explore Learning Gizmo Answer Key Basic Prism
 - 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 Explore Learning Gizmo Answer Key Basic Prism
 - User-Friendly Interface
4. Exploring eBook Recommendations from Explore Learning Gizmo Answer Key Basic Prism
 - Personalized Recommendations
 - Explore Learning Gizmo Answer Key Basic Prism User Reviews and Ratings
 - Explore Learning Gizmo Answer Key Basic Prism and Bestseller Lists
5. Accessing Explore Learning Gizmo Answer Key Basic Prism Free and Paid eBooks
 - Explore Learning Gizmo Answer Key Basic Prism Public Domain eBooks
 - Explore Learning Gizmo Answer Key Basic Prism eBook Subscription Services

- Explore Learning Gizmo Answer Key Basic Prism Budget-Friendly Options
- 6. Navigating Explore Learning Gizmo Answer Key Basic Prism eBook Formats
 - ePub, PDF, MOBI, and More
 - Explore Learning Gizmo Answer Key Basic Prism Compatibility with Devices
 - Explore Learning Gizmo Answer Key Basic Prism Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Explore Learning Gizmo Answer Key Basic Prism
 - Highlighting and Note-Taking Explore Learning Gizmo Answer Key Basic Prism
 - Interactive Elements Explore Learning Gizmo Answer Key Basic Prism
- 8. Staying Engaged with Explore Learning Gizmo Answer Key Basic Prism
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Explore Learning Gizmo Answer Key Basic Prism
- 9. Balancing eBooks and Physical Books Explore Learning Gizmo Answer Key Basic Prism
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Explore Learning Gizmo Answer Key Basic Prism
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Explore Learning Gizmo Answer Key Basic Prism
 - Setting Reading Goals Explore Learning Gizmo Answer Key Basic Prism
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Explore Learning Gizmo Answer Key Basic Prism
 - Fact-Checking eBook Content of Explore Learning Gizmo Answer Key Basic Prism
 - 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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