



Name: Ruby Quan

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.

Gizmo Answers For Basic Prism

S Ben Porath

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

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Table of Contents Gizmo Answers For Basic Prism

1. Understanding the eBook Gizmo Answers For Basic Prism
 - The Rise of Digital Reading Gizmo Answers For Basic Prism
 - Advantages of eBooks Over Traditional Books
2. Identifying Gizmo Answers For 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 Gizmo Answers For Basic Prism
 - User-Friendly Interface

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

12. Sourcing Reliable Information of Gizmo Answers For Basic Prism
 - Fact-Checking eBook Content of Gizmo Answers For 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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