



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?

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

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?

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?

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

Basic Prism Gizmo Answer Key

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Basic Prism Gizmo Answer Key:

The Enigmatic Realm of **Basic Prism Gizmo Answer Key**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Basic Prism Gizmo Answer Key** a literary masterpiece penned with a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of people who partake in its reading experience.

<https://matrix.jamesarcher.co/files/browse/default.aspx/8865600470%20it28.pdf>

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