



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,  **$\lambda$**  is 500 nm,  **$n$**  is 1.50,  **$w$**  is 2.0, and the angle ( **$\theta$** ) is 0°.

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

2. Move the  **$\lambda$**  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

**EW Minium**



**Basic Prism Gizmo Answer Key:**

## Unveiling the Power of Verbal Art: An Mental Sojourn through **Basic Prism Gizmo Answer Key**

In a global inundated with monitors and the cacophony of immediate transmission, the profound energy and emotional resonance of verbal artistry usually fade in to obscurity, eclipsed by the regular onslaught of noise and distractions. Yet, situated within the musical pages of **Basic Prism Gizmo Answer Key**, a captivating perform of fictional beauty that impulses with organic feelings, lies an unique journey waiting to be embarked upon. Published by way of a virtuoso wordsmith, that exciting opus guides readers on a psychological odyssey, softly revealing the latent possible and profound impact embedded within the intricate web of language. Within the heart-wrenching expanse of this evocative analysis, we will embark upon an introspective exploration of the book is main themes, dissect their captivating writing model, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

<https://matrix.jamesarcher.co/files/virtual-library/HomePages/Children%20Bedtime%20Story%20Stories.pdf>

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