



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

Clifford Lane



Basic Prism Gizmo Answer Key:

Unveiling the Power of Verbal Artistry: An Emotional Sojourn through **Basic Prism Gizmo Answer Key**

In some sort of inundated with displays and the cacophony of fast connection, the profound power and psychological resonance of verbal art frequently fade into obscurity, eclipsed by the regular onslaught of sound and distractions. Yet, nestled within the musical pages of **Basic Prism Gizmo Answer Key**, a charming perform of fictional splendor that pulses with raw thoughts, lies an wonderful journey waiting to be embarked upon. Published with a virtuoso wordsmith, that enchanting opus books visitors on an emotional odyssey, gently exposing the latent potential and profound affect embedded within the complicated internet of language. Within the heart-wrenching expanse with this evocative evaluation, we can embark upon an introspective exploration of the book is central themes, dissect their charming publishing fashion, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

<https://matrix.jamesarcher.co/About/Resources/default.aspx/paperback%20painting%20techniques%20manual.pdf>

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