



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

**M Carnoy**



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