



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.

Gizmos Worksheet Basic Prism

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