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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?

on the right, a rainbow, on the left a white light

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?

The beam of light refracts

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 Ray of light changes color

B. How does this affect the direction of the light ray? The refraction angle changes

Basic Prism Gizmo Answer Key

RJ Alexander



Basic Prism Gizmo Answer Key:

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