



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.

Student Exploration Basic Prism Answers

BM King



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given that the boiling points of ethanol and methanol 78 c and 64 c respectively are far off in a significant way this seems like

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melting point 1 a push the open end of a capillary tube into the powdered acetamide b move the powder to the closed end of the capillary tube by tapping it on the table repeat until the the powdered acetamide occupies 1 2 mm of the capillary tube end c

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determination of boiling points introduction the boiling point of a compound is the temperature at which it changes from a liquid to a gas this is a physical property often used to identify substances or to check the purity of the compound it

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conclusion after completing this experiment the melting point of three different unknown compounds was obtained using the mel temp apparatus compound a had a melting point range of 114 6 115 5 c thus revealing it to be acetanilide compound b had a melting point range of 122 6 124 5 c thus

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50 c so in order to convert an experimental measurement taken in calgary which is at higher altitude than sea level and so is at a lower pressure to that reported for sea level higher pressure one needs to add a correction factor since the boiling point at sea level is higher than that at higher altitudes

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