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.



What do you see?

A prism/pyramid made of glass with white light entering from the left, and rainbow light escaping from the right

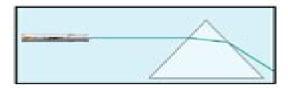
2. What does this indicate about the composition of sunlight?

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. A is: 500 nm, n is 1.50, w is 2.0, and the angle (*) is 0*.



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.

- Move the A 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

a valid conclusion conclusion thermometer calibrations are necessary in order to collect reliable information as precise calculations are imperative to gathering correct results

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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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discussion and conclusion the technique recrystallization was used because it is a simple method to purify a solid compound the percentage yield for benzoic acid and acetanilide acid being high indicated the initial sample had a low concentration of impurities with the melting point being in a specific

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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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