

Student Exploration: Refraction

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, frequency, index of refraction, medium, refraction, Snell's law, total internal reflection, wave front, wavelength, wave speed

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

Two runners ran side by side, each holding one end of a horizontal pole.

1. What would most likely happen if one of the runners began jogging in knee-deep water?

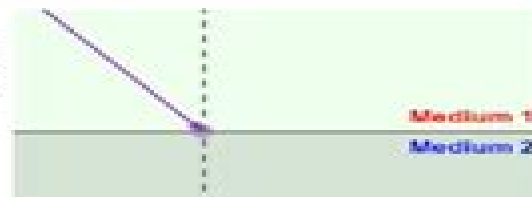
If one of the runners began jogging in knee-deep water, the runner would slow down.

2. How would this affect the direction of the runners? Explain.

This would affect the direction of the runners because the runner on the dry ground would outpace the runner in the water.

Gizmo Warm-up

Light can travel through many materials, or **media**. As with a runner on pavement or sand, the speed of light can change when it moves into a different medium. The *Refraction* Gizmo allows you to observe what happens to a beam of light as it travels from one medium to another.



Turn off **View wave fronts**. Set **Index of refraction 2** to 3.0.

1. Click **Play** (▶). Observe the ray of light as it passes from **Medium 1** to **Medium 2**.

- A. What happens to the speed of the light wave?

The speed of the light wave got significantly slower as it passed from Medium 1 to Medium 2.

- B. What happens to the direction of the light wave?

The direction of the light waves changes. The wavelength decreases as the light enters the medium and the light wave changes direction.

The bending of the light ray you see is called **refraction**.

2. Click **Reset** (↺) and turn on **View wave fronts**. A **wave front** is an imaginary line that connects the crests or troughs of a wave. The **wavelength** of a wave is the distance between wave fronts.

Answer Key Refraction Gizmo Exploration Sheet

S Ben Porath

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Answer Key Refraction Gizmo Exploration Sheet:

Adopting the Track of Appearance: An Psychological Symphony within **Answer Key Refraction Gizmo Exploration Sheet**

In a global taken by displays and the ceaseless chatter of instantaneous conversation, the melodic elegance and emotional symphony produced by the published term frequently diminish into the background, eclipsed by the constant noise and interruptions that permeate our lives. Nevertheless, located within the pages of **Answer Key Refraction Gizmo Exploration Sheet** a stunning literary treasure brimming with fresh thoughts, lies an immersive symphony waiting to be embraced. Constructed by an outstanding musician of language, this fascinating masterpiece conducts readers on a psychological journey, well unraveling the hidden tunes and profound impact resonating within each cautiously crafted phrase. Within the depths of this poignant examination, we shall explore the book is key harmonies, analyze their enthralling writing model, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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web ans the mole concept in chemistry is a fundamental concept that allows us to connect the mass of a substance to the number of particles atoms molecules or ions it contains it is based on avogadro s number which states that one mole of any substance contains 6.022×10^{23} particles 2