

Online PhET Lab - Refraction of Light

I. Introduction

In this activity you will be investigating how light is bent at the boundary between two materials and what determines the amount of bending. You will be using one of the simulations from PhET Interactive Simulations. The simulation is called Bending Light (HTML5). This is the link for the simulation: <https://phet.colorado.edu/simulations/bending-light>. For this activity you will use the Mouse Tools window. Keep the wavelengths of the light at 500 nm.

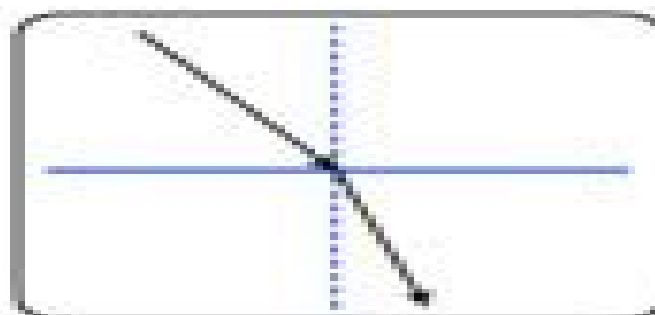


Steve Tiedje

Vocabulary: incident ray, refracted ray, angle of incidence, angle of refraction, angle of reflection, index of refraction, critical angle, total (internal) reflection, intensity

1.) The diagram below shows the path of a ray of light as it travels through air, across the air-water boundary, and through the water. Before using the simulation label the following items on the diagram:

- a) the air-water boundary with an **R**.
- b) the normal line with an **N**.
- c) the incident ray with an **I**.
- d) the refracted ray with an **R**.
- e) the angle of incidence with an **α** .
- f) the angle of refraction with a **β** .



II. Refraction, The Bending of Light

Refraction is the bending of light as it passes, at an angle, from a material with one index of refraction to a material with a different index of refraction. In the following investigations you will be exploring the factors that affect the refraction of light.

Investigation No. 1

Set the indices of refraction so that they are the same for both materials. Measure the angle of refraction for the following angles of incidence. Enter your chosen indices of refraction below.

Index of refraction top material:

Index of refraction bottom material:

angle of incidence (α)	0°	30°	45°	60°	90°
angle of refraction (β)					

Phet Refraction Simulation Answer Key

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Phet Refraction Simulation Answer Key:

Phet Refraction Simulation Answer Key: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Phet Refraction Simulation Answer Key : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Phet Refraction Simulation Answer Key : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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