

Light

Refraction and Lenses

Before You Read

Key Concept

- Why does a polar bear's body look different in water?

What do you think? Read the two statements below and decide whether you agree or disagree with them. Place an A in the Before column if you agree with the statement or a D if you disagree. After you've read this lesson, reread the statements to see if you have changed your mind.

Before	Statement	After
	Light waves always travel at the same speed.	
	When light moves from air into water or glass, it travels more slowly.	

Read to Learn

What happens when light passes through a medium other than air?

Light always travels through empty space at the same speed—about 300,000 km/s.

Medium Interactions Light travels more slowly when it moves through a medium such as air, glass, or water. This is because the atoms of the material interact with the light waves and slow them down.

Refraction of Light As a light wave moves from one medium into another, its speed changes. If the wave enters the new medium at an angle, the wave will change direction. *The change in direction of a wave as it changes speed while moving from one medium to another is called refraction.*

Index of Refraction The index of refraction is a property of transparent and translucent materials. The index of refraction indicates how much a medium can change the direction of light. A medium that has a high index of refraction is sometimes called slow because light moves more slowly through it. A medium that has a low index of refraction, such as air, is called fast.

Study Coach

Create a Quiz Write a quiz question for each paragraph. Answer the question with information from the paragraph. Then work with a partner to quiz each other.

Scientific Vocabulary

medium
(*noun*) a substance that something exists in or moves through

Essentials Of Refraction

JA Banks



Essentials Of Refraction:

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Table of Contents Essentials Of Refraction

1. Understanding the eBook Essentials Of Refraction
 - The Rise of Digital Reading Essentials Of Refraction
 - Advantages of eBooks Over Traditional Books
2. Identifying Essentials Of Refraction
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Essentials Of Refraction
 - User-Friendly Interface
4. Exploring eBook Recommendations from Essentials Of Refraction
 - Personalized Recommendations
 - Essentials Of Refraction User Reviews and Ratings
 - Essentials Of Refraction and Bestseller Lists
5. Accessing Essentials Of Refraction Free and Paid eBooks
 - Essentials Of Refraction Public Domain eBooks
 - Essentials Of Refraction eBook Subscription Services
 - Essentials Of Refraction Budget-Friendly Options

6. Navigating Essentials Of Refraction eBook Formats
 - ePub, PDF, MOBI, and More
 - Essentials Of Refraction Compatibility with Devices
 - Essentials Of Refraction Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Essentials Of Refraction
 - Highlighting and Note-Taking Essentials Of Refraction
 - Interactive Elements Essentials Of Refraction
8. Staying Engaged with Essentials Of Refraction
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Essentials Of Refraction
9. Balancing eBooks and Physical Books Essentials Of Refraction
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Essentials Of Refraction
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Essentials Of Refraction
 - Setting Reading Goals Essentials Of Refraction
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Essentials Of Refraction
 - Fact-Checking eBook Content of Essentials Of Refraction
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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