

# Reflection and Refraction Lab Online

## Purpose

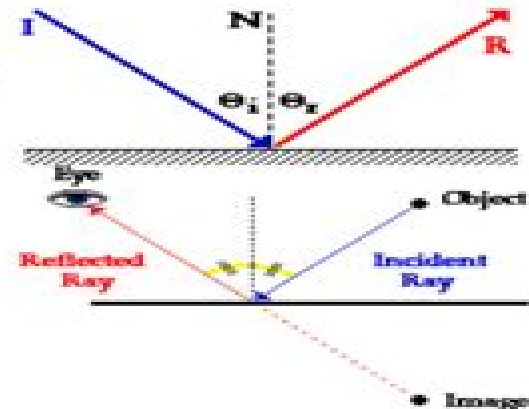
The purpose of the first part of this activity is to determine the relationship between the angle of incidence and the angle of reflection for a light ray reflecting from flat, concave, and convex mirrors. The purpose for the second part is to examine the relationship of the angle of incidence and the angle of refraction for a light ray passing through a rhombus prism. Use a light source, three-way mirror, rhombus prism, and protractor to measure angles of a light ray.

## Background: Reflection

When a ray of light strikes a plane mirror, the light ray reflects off the mirror. Reflection involves a change in direction of the light ray. The convention used to express the direction of a light ray is to indicate the angle which the light ray makes with a normal drawn to the surface of the mirror (a line that is

perpendicular to the surface). The angle of incidence is the angle between this normal and the incident ray; the angle of reflection is the angle between this normal and the reflected ray. According to the law of reflection, the angle of incidence equals the angle of reflection.

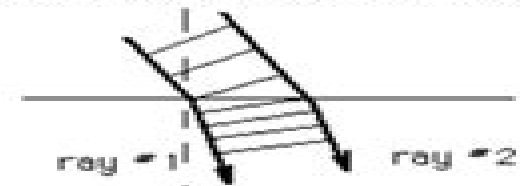
To view an image of an object in a mirror, you must sight along a line at the image location. As you sight at the image, light travels to your eye along the path shown in the diagram. The diagram shows that the light reflects off the mirror in such a manner that the angle of incidence is equal to the angle of reflection.



## Refraction

The most common example of refraction is the bending of light on passing from air to a liquid, which causes submerged objects to appear displaced from their actual positions. Refraction is also the reason that prisms separate white light into its constituent colors.

Refraction is commonly explained in terms of the wave theory of light and is based on the fact that light travels with greater velocity in some media than it does in others. When, for example, a ray of light traveling through air strikes the surface of a piece of glass at an angle, one side of the wave front enters the glass before the other and is retarded (since light travels more slowly in glass than in air), while the other side continues to move at its original speed until it too reaches the glass.



# Lab Reflection Refraction Report Written

**Yan Bai**



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## **Table of Contents Lab Reflection Refraction Report Written**

1. Understanding the eBook Lab Reflection Refraction Report Written
  - The Rise of Digital Reading Lab Reflection Refraction Report Written
  - Advantages of eBooks Over Traditional Books
2. Identifying Lab Reflection Refraction Report Written
  - 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 Lab Reflection Refraction Report Written
  - User-Friendly Interface
4. Exploring eBook Recommendations from Lab Reflection Refraction Report Written
  - Personalized Recommendations
  - Lab Reflection Refraction Report Written User Reviews and Ratings
  - Lab Reflection Refraction Report Written and Bestseller Lists
5. Accessing Lab Reflection Refraction Report Written Free and Paid eBooks
  - Lab Reflection Refraction Report Written Public Domain eBooks
  - Lab Reflection Refraction Report Written eBook Subscription Services
  - Lab Reflection Refraction Report Written Budget-Friendly Options

6. Navigating Lab Reflection Refraction Report Written eBook Formats
  - ePub, PDF, MOBI, and More
  - Lab Reflection Refraction Report Written Compatibility with Devices
  - Lab Reflection Refraction Report Written Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Lab Reflection Refraction Report Written
  - Highlighting and Note-Taking Lab Reflection Refraction Report Written
  - Interactive Elements Lab Reflection Refraction Report Written
8. Staying Engaged with Lab Reflection Refraction Report Written
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Lab Reflection Refraction Report Written
9. Balancing eBooks and Physical Books Lab Reflection Refraction Report Written
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Lab Reflection Refraction Report Written
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Lab Reflection Refraction Report Written
  - Setting Reading Goals Lab Reflection Refraction Report Written
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Lab Reflection Refraction Report Written
  - Fact-Checking eBook Content of Lab Reflection Refraction Report Written
  - 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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