

Reflection and Refraction Lab Online

Purpose

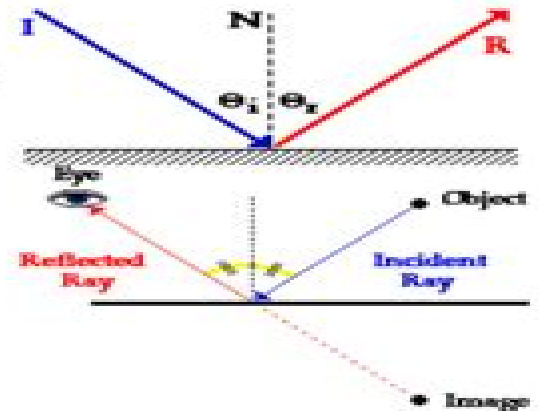
The purpose of the first part of this activity is to determine the relationship between the angle of incidence and the angle of reflection for a light ray reflecting from flat, concave, and convex mirrors. The purpose for the second part is to examine the relationship of the angle of incidence and the 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.

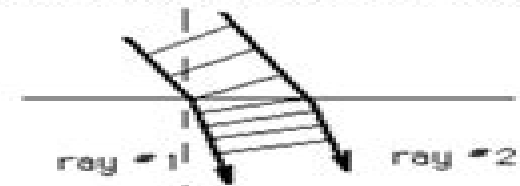
To view an image of an object in a mirror, you must sight along a line at the image location. As you sight at the image, light travels to your eye along the path shown in the diagram. The diagram shows that the light reflects off the mirror in such a manner that the angle of incidence is equal to the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



Reflection And Refraction Lab Answers

Lawrie Ryan, Keith Johnson



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