

Refraction – A ray of light is a thin beam that travels in a straight line. Refraction is the phenomenon when light travels from one medium into another, such as through air into water, causing the ray to change speed and direction. Refraction can be observed through droplets of water, where the neighboring vegetation is miniaturized and reversed, or in light traveling through a water glass. A physical property of the medium, called refractive index, is related to these changes and used in the design of lenses and prisms.

Reflection is when a ray of light strikes a surface and bounces back, or is reflected. The light bounces in a predictable way, which is described by the law of reflection. Because of reflection, you can see yourself in a mirror. In astronomy, mirrors are used in reflecting telescopes to visualize distant objects. Objects are visible because of the light reflected from their surfaces, such as the moon, and color is the result of certain wavelengths of light being absorbed while others are reflected.





