

Optics - The Study of Light

Refraction

Light refracts when passing between two substances at an angle.

Light does not bend as glass that is not at an angle from the surface of the light.



Light bends as it goes from air into water, bending towards the light in water on the left.

The right side of the water surface is closer to the light.



Reflection

Light reflects when it bounces off a surface.

Normal - an imaginary line 90° perpendicular to a surface.

Angle of Incidence - the angle between the incident ray and the normal.

Angle of Reflection - the angle between the reflected ray and the normal.



Focus

Many types of mirrors focus light waves at a single point (focal point). This is known as the focal point or focus.



Convex Mirrors

Mirrors and lenses can make images that appear as virtual images and form always erect, close to the surface. These images are called virtual images.



Image vs. Image

The object is what you are looking at. The image is what you see.

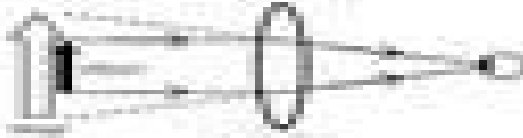
The image is what you see when you look at the object. The image is what you see.

Lenses

Concave and convex lenses converge or diverge light. If a convex lens is used, light is refracted towards the center.

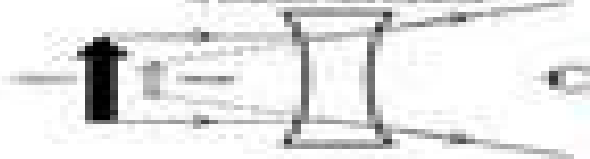
Concave lenses diverge light, so the light bending away from the center of the lens.

A convex lens converges light.



A concave lens is divergent. The light rays are spread out.

A concave lens diverges light.



A concave lens is divergent. The light rays are spread out.

Concave lens (divergent)

Concave Lens



Optical System



Microscopes and telescopes are optical systems that use lenses to focus light. They are used to see objects that are too small or too far away to see with the naked eye.

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Optics Basics Key

Krishna Thyagarajan



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