

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 yet at an angle. (straight through)

SLAB

Light bends as it goes from air to glass at an angle. (refracting the light in the new medium)

The light bends the more the angle. (more bent in the light)

SLAB

SLAB

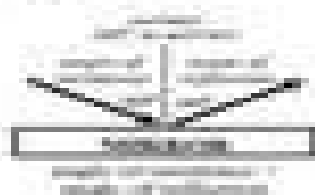
Refraction

Light refracts when passing between two substances at an angle.

Refract - to bend or to change direction of light.

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

Angle of Refraction - the angle between the refracted ray and the normal.



Focus

Focus - the point where parallel rays of light converge after passing through a lens.



Concave Lens

Concave lens - a lens that is thinner in the center and thicker at the edges. It causes light rays to diverge.



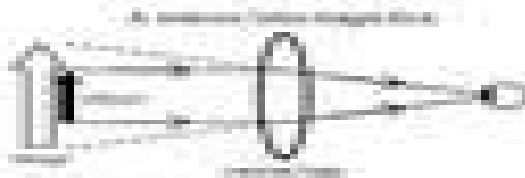
Image vs. Object

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. It can be real or virtual.

Image

Image - the point where light rays converge after passing through a lens.



A convex lens is converging. The light rays converge together.

A convex lens is converging.



A concave lens is diverging. The light rays spread apart.

Image is virtual (upside down)

Concave and convex lenses depend on how light rays are refracted. If the rays converge, it's a convex lens. If the rays diverge, it's a concave lens.

Concave Lens

Concave lens - a lens that is thinner in the center and thicker at the edges. It causes light rays to diverge.

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Optical System



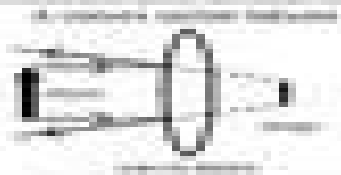
Optical system - a system of lenses and mirrors that work together to focus light. It can be used to create images or to focus light on a target.

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Image

Image - the point where light rays converge after passing through a lens. It can be real or virtual.

The image is what you see when you look at the object. It can be real or virtual.



A convex lens is converging. The light rays converge together.



A concave lens is diverging. The light rays spread apart.

Optics The Study Of Light Answers Key

Laurie E. Westphal



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