

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)



Light bends as it goes from air into glass. (bending towards the normal)

The refractive index (n) is a measure of how much light bends.



Reflection

Light reflects off a surface at the same angle.

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

Point at which light rays meet after refraction. (focal point)



Concave Lens

Concave lens causes light rays to diverge. (spread out)



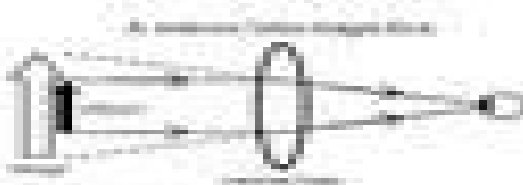
Image vs. Object

The object is what you are looking at. (the real thing)

The image is what you see after the light has been reflected or refracted.

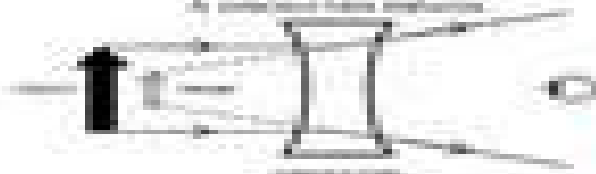
Image

Image is what you see after light has been reflected or refracted.



A convex lens is converging. (light rays come together)

A concave lens is diverging. (light rays spread apart)



A concave lens is diverging. (light rays spread apart)

Image is what you see

Image and object are separated by a distance. (focal length)

Concave Lens



Optical System



Optical system is a system of lenses that can focus light. (converging and diverging lenses)

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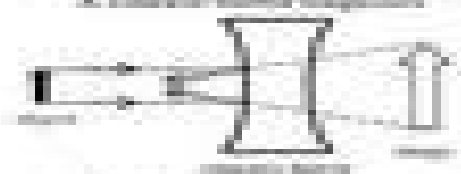
Image

Image is what you see after light has been reflected or refracted. (the virtual image)

The image is what you see after the light has been reflected or refracted. (the virtual image)



A convex lens is converging. (light rays come together)



A concave lens is diverging. (light rays spread apart)

Image is what you see

Optics Basics Key

JA Banks



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