

# 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 line.

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 converge after reflection or refraction. (Point where light rays meet)



## Concave Mirror

Concave mirrors focus light rays to a point. (Point where light rays meet)



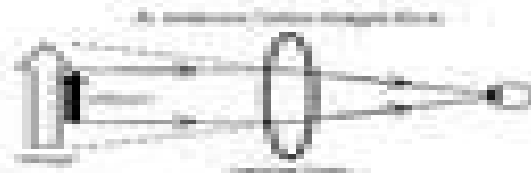
## Convex Mirror

The convex mirror diverges light rays.

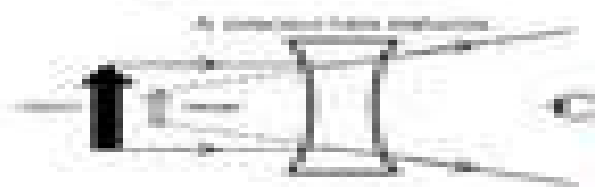
The image is virtual, upright, and smaller than the object.

## Lens

Lenses refract light rays, focusing them to a point.



A converging lens is thicker in the middle than at the edges.



A diverging lens is thinner in the middle than at the edges.

(Image inverted)

Concave and convex lenses converge or diverge light rays.

## Concave Lens



## Optical System



Microscopes and telescopes use lenses to magnify objects.

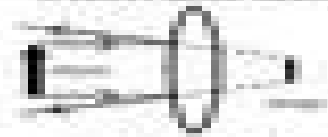
Optical systems are used in many applications, including cameras and eyeglasses.

## Image

Image is a representation of an object formed by light rays.

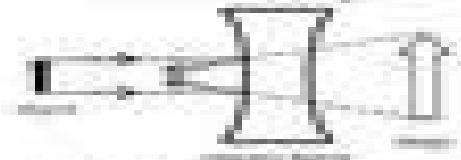
Real image: formed by converging light rays. Can be projected on a screen.

Virtual image: formed by diverging light rays. Cannot be projected on a screen.



A converging lens can form a real image.

A converging lens can form a virtual image.



A diverging lens can form a virtual image.

(Image inverted)

# Optics The Study Of Light Worksheet Answer Key

**CL Gary**



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







































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