

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 within water. Distorting the light as it enters the water.



Light bends as it enters glass because it is slower in the glass than it is in the air.

The light ray that enters the glass bends towards the normal.



At the light ray that enters the glass, it bends towards the normal.

Reflection

Light reflects off a surface and bounces back.

Normal - an imaginary line that is 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

Focus is the point where parallel rays of light converge after reflecting off a curved surface. Focus is the point where parallel rays of light converge after reflecting off a curved surface.



Concave Mirror

Concave mirrors are used to focus light. They are used in many applications, such as in telescopes, headlights, and solar furnaces.



Convex Mirror

Convex mirrors are used to see a wider area. They are used in many applications, such as in rearview mirrors, security mirrors, and traffic mirrors.

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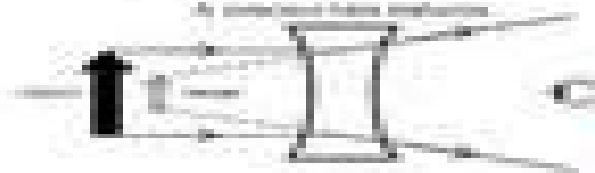
Image

Image is the result of light rays converging or diverging. Image is the result of light rays converging or diverging.



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

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



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

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

Concave and convex lenses are used to focus light. They are used in many applications, such as in telescopes, headlights, and solar furnaces.

Concave Lens



Optical System

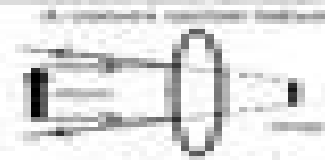


Optical systems are used to focus light. They are used in many applications, such as in telescopes, headlights, and solar furnaces.

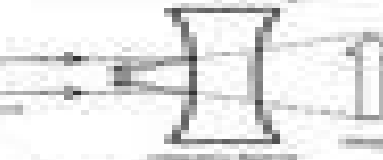
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A convex lens is converging. The light rays converge together.



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Optics Basics Key

Richard Bailey



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