

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 right.

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 objects look bigger or smaller. They can also focus light waves. Convex mirrors spread out light waves, making them diverge.



Concave vs. Convex

The object is closer to the mirror than the focal point.

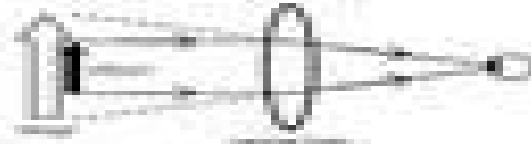
The image is virtual, upright, and larger than the object.

Lenses

Concave and convex lenses converge or diverge light. If the object is at the focal point, the image is at infinity.

Concave lenses diverge light waves, making them spread out.

A concave lens diverges light.



A convex lens is converging. The light rays converge.

A convex lens converges light.



A convex lens is converging. The light rays converge.

Image is inverted (upside down).

Concave vs. Convex



Optical Systems



Microscopes and telescopes use optical systems. They use multiple lenses to focus light and create images.

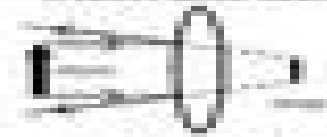
Optical systems are used in many applications, including cameras, microscopes, and telescopes.

Microscopes

Microscopes use lenses to magnify small objects. They use a combination of objective and eyepiece lenses.

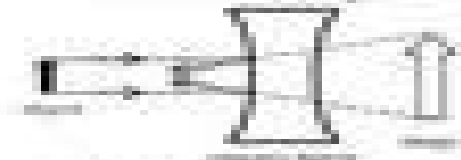
The image is inverted. The image is larger than the object.

A convex lens converges light.



A convex lens is converging.

A convex lens converges light.



A convex lens is converging.

Image is inverted (upside down).

Optics The Study Of Light Answers Key

Jiyuan Zhang



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