

A lens is a transparent or translucent piece of glass, plastic, or other material that has at least one curved surface, which is used to bend or refract light as it passes through the lens. Lenses are commonly used in optics, photography, eyewear, and various optical devices to control the direction, focus, or magnification of light.

Lenses come in different shapes and sizes, and they can be categorized into two main types: convex lenses and concave lenses.

1. Convex lenses bulge outward and are thicker in the center than at the edges. They converge or focus light rays that pass through them, bringing them together at a point called the focal point. Convex lenses are commonly used in cameras, telescopes, microscopes, eyeglasses for farsightedness, and other optical devices that need to magnify or focus light.