

Reflectance

The ratio of reflected light to the total amount of light falling on the surface.

Examples

Magnesium Oxide 98%
Silver 95%
Black < 5%

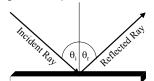
Laws of Reflection

1st Law

The angle of incidence is equal to the angle of reflection

2nd Law

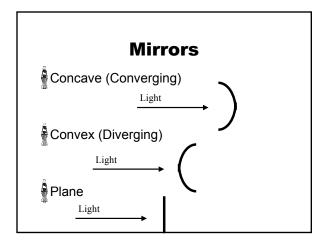
The incident and reflected ray lie in the same geometric plane.



Regular Reflection A narrow beam of light reflects without loss of definition or intensity. Reflected rays are parallel to each other Caused by specular (polished) surfaces

Law of reflection still holds, but the normals at the points of intersection are not parallel. Reflected rays are not parallel to each





Images The "picture" of the object seen in the mirror. Types Real • Rays of light are reflected and actually pass through the point where the image is located. • Rays of light appear to come from the point where the image is located, but actually do not **Describing Images** Type: Real or virtual Orientation: Upright or inverted Size: Larger, smaller, or same Distance: Farther, closer, or same **Plane Mirrors** 🕯 Create virtual, upright, same size images that appear the same distance behind the mirror as the object is in front.

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