Optics - The Study of Light

Refraction

Previous:

Light refracts when passing between two substances at an angle.

GLASS V

Light slows down in glass. Here the left side slows down first cousing the light to bend to the left.



Light speeds up in air. Flere the left side speeds up first causing the light to bend to the right. abstances at an angele.

The right side hits first and slows



If the light does not enter at an angle, it does not bend.

Reflection

Light reflects at shiny boundaries we call mirrors.

Normal — an imaginary line 90° (perpendicular to a surface.

Angle of Incidence - the angle between the incoming my and the normal.

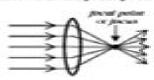
Angle of Reflection – the angle between the outgoing ray and the roomal.



angle of incidence angle of reflection

Focus

Every lens or mirror has a place where all of the parallel rays will meet. This is known as the **focul point** or **focur**.



Straight Lines

Mirrors and lenses can make things look bigger or smaller because our eyes always think that light comes from straight lines, even if they have been refracted or refrected.



Object vs. Image

The object is what you are looking at the actual thing.

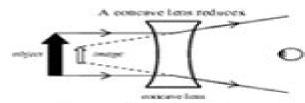
The image is what you think you see: the object entarged, reduced, or moved.

Lenses

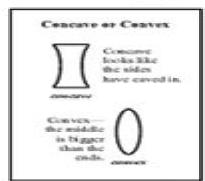
Leases work by refraction, by the light bending when moving between two substances.

A convex lens magni fi ex

A convex lens is convergent the light rays come together.



A concave less is divergent the light raps spread apart. Lenses and mirrors work apposite of each other. If a concave tens reduces, then a concave mirror magnifies.



Optical Systems



Microscopes and telescopes are against systems that use combinations of leases and/or mirrors to magnify light. Combining

optical devices allows us to see very distant or very small objects.

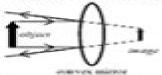
Miller ones.

Mirrors work by reflection, by the bounding of light off of a shiny surface. Images in mirrors always look twice as far away as the object.

Ex. An image looks 20 m away in a mirror. Hore for away is the object?

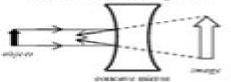
Answer: Half the distance: 10 meters.

A convex mirror reduces.



A connect mirror in divergent.

A concave mirror magnifies



A concern mirror in convergent

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Optics The Study Of Light Key

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