

PHYSICS 2000: LENSES, REFLECTIONS AND REFRACTIONS LABS WITH SIMULATIONS

OBJECTIVE

To study the reflection of light on flat and curved surfaces, and refraction of light through different media, and to find the focal length of a convex lens.

EQUIPMENT

PHET simulated bending light: <https://phet.colorado.edu/en/simulation/bending-light>

PHET simulated Geometric Optics:

<https://phet.colorado.edu/en/simulation/geometric-optics>

Two convex lens of the same thickness but different radii of curvature. Also, two convex lenses. (One convex bending light, another Geometric Optics simulation)

THEORY

Light can be considered as a beam, or ray, that travels in straight lines if the size of wavelength (propagation) is less than by reflection or refraction. When a light ray travelling in one medium hits the interface between a different medium, part of it is reflected back into the same medium (according to the law of reflection) & the other part is refracted (or transmitted) part of the light will enter the medium, and the direction will change. This process is called as bending, according to refraction follows the law of refraction.

Law of Reflection, it can be given as figure 1, showing that when a light ray strikes any mirror, the angle of incidence, θ_i , is equal to the angle of reflection, θ_r . Both angles are measured from the normal, the perpendicular to surface. This is true for flat as well as curved surfaces. Curved surfaces which bulge outward called convex, while those that bulge inwardly called concave. If the surface is spherical, or circular, then the reflecting ray may either converge to a point (focus, or focus point) or diverge after reflection (figure 2).

(In all figures, the red line indicates light ray, the dashed line indicates the normal).

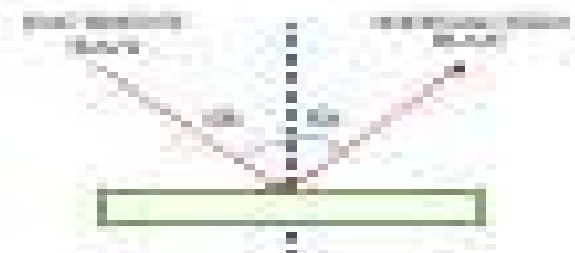


Figure 1

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CL Gary



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