

Magnifying Glass

Apparatus

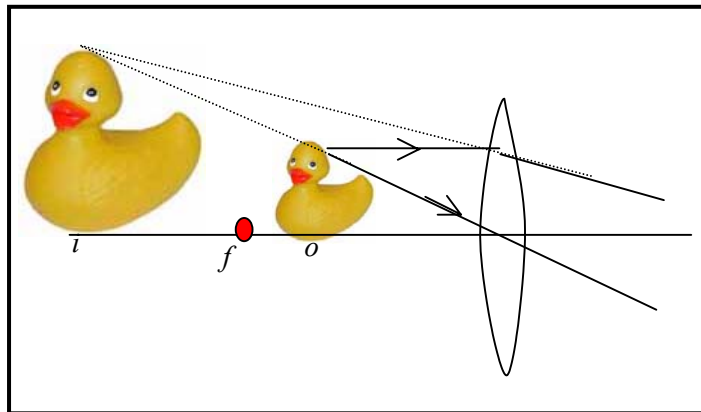
magnifying glass

Action

The students experiment with the forming images with the magnifying glass. They should draw a ray diagram showing the path of rays from an object seen through the magnifying glass to their eye. They should also determine what sort of image is formed by the magnifying glass, and whether is it a converging or diverging lens.

The Physics

A magnifying glass uses a convex lens, which is a converging lens to produce an image. The image produced is upright, magnified and virtual as long as the object is at or within the focal length of the lens.



Accompanying sheet

Magnifying Glass

Look at a small object or fine print through the magnifying glass.
What sort of image is produced?

What sort of lens does a magnifying glass use?

Draw a ray diagram showing the path of a light ray from the object to your eye.