

### **Answer on Question #47005-Physics-Optics**

How far from a magnifying glass do you place an object to view it?

closer than than the focal length

distance equal to the focal length

greater than the focal length but less than twice the focal length

at twice the focal length

### **Answer**

Distance equal to the focal length.

Focal length is the distance from the magnifying lens to the object behind the lens when the object is in focus. To put it another way, the optimal distance between the object being magnified (when it is in clear focus) and the magnifying glass is the focal length.

If you are not using a magnifier at its correct focal length, the object you are viewing will appear out of focus, distorted, or upside down when trying to view it through the magnifying glass.