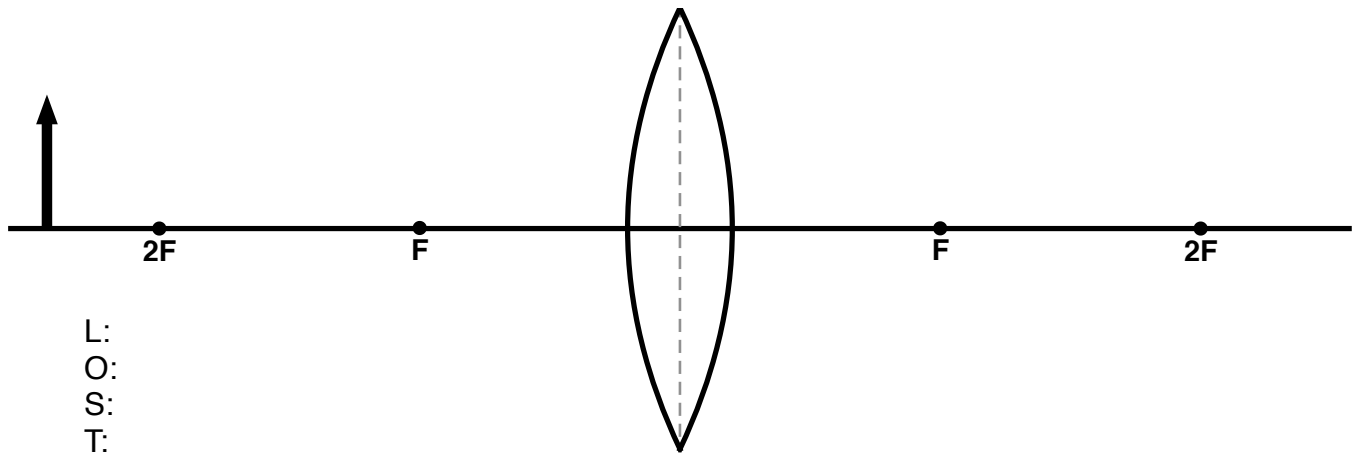


## RAY DIAGRAMS FOR LENSES

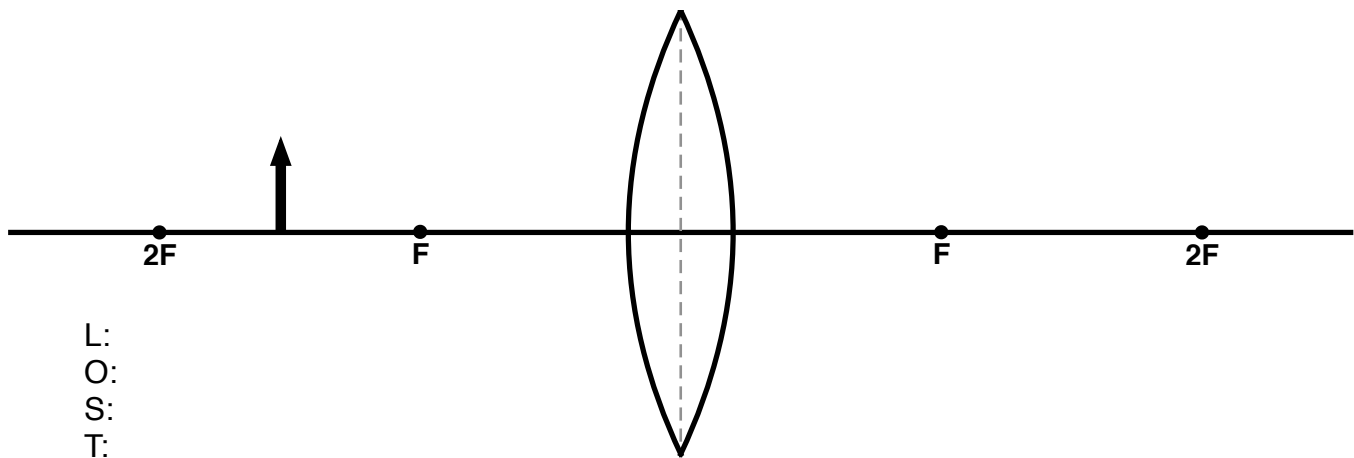
1. For each object draw all three principal rays:  
A. Parallel Ray B. Focal Ray C. Center Ray
2. Locate and draw the image, then label it with the word "image". Be sure the image arrow points in the proper direction to show correct orientation.
3. State the image **L**ocation, **O**rientation, **S**ize, and **T**ype (LOST) in the space provide.
4. Below the diagram give a practical example of using the lens for each situation.

### Convex (converging) lens, object beyond two focal lengths



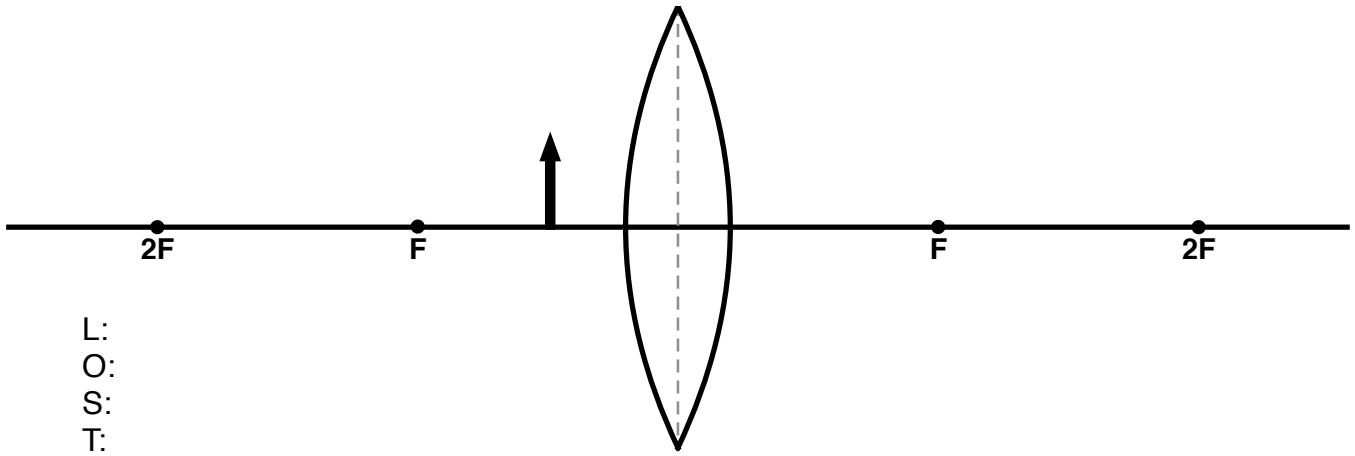
Practical application:

### Convex (converging) lens, object between the focal point and twice the focal point



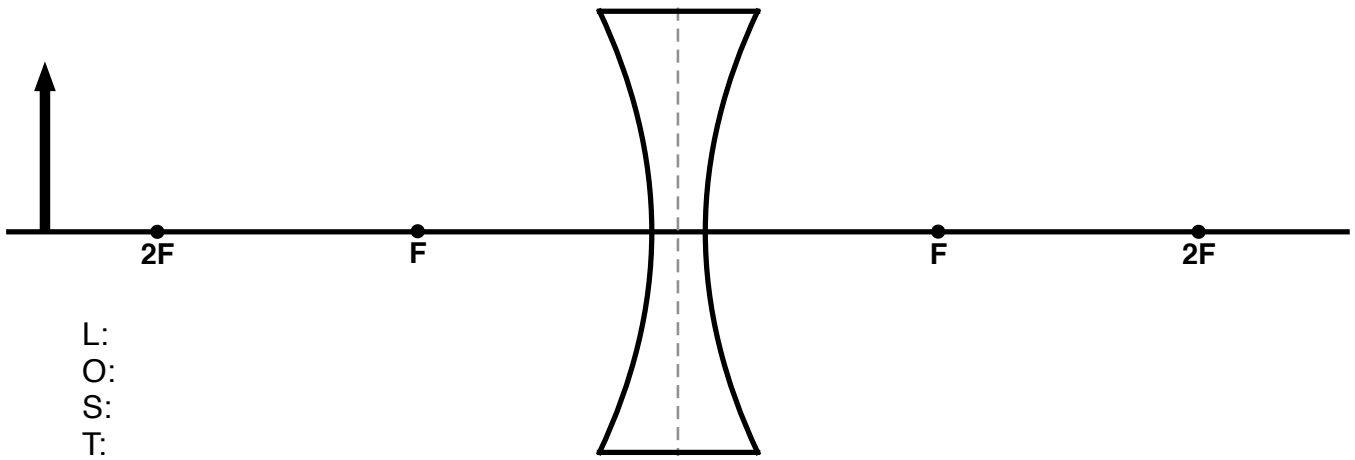
Practical application:

**Convex (converging) lens, object inside the focal point**



Practical application:

**Concave (diverging) lens, object in front of the lens**



Practical application: