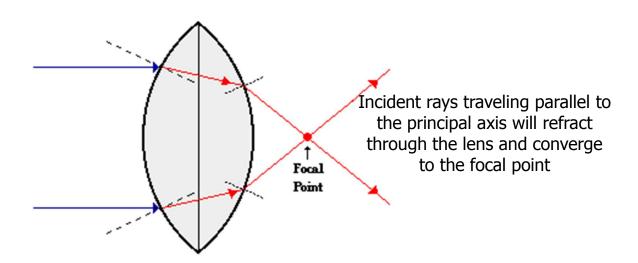
Ray Diagrams for Lenses







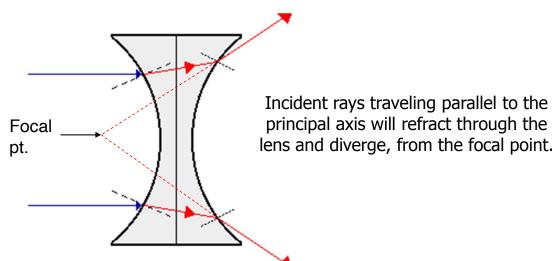
- There are two Focal points
 - One in Front and one Behind
 - Focal point is ½ way between Center of Curvature & Lens



Concave (Diverging) Lenses



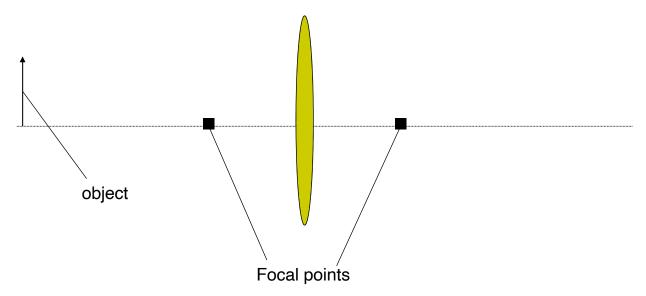
- There are two Focal points
 - One in Front and one Behind
 - Focal point is ½ way between Center of Curvature & Lens







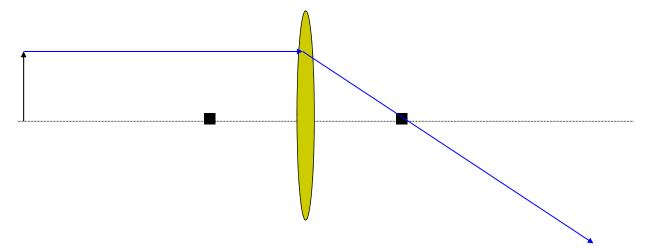
Object outside the focal point







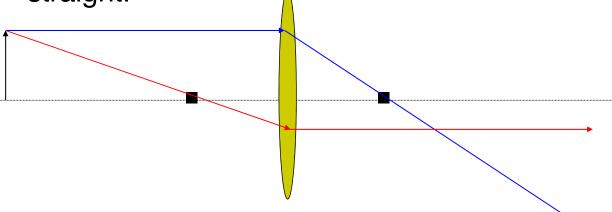
• Step 1, go straight in and bend thru focal







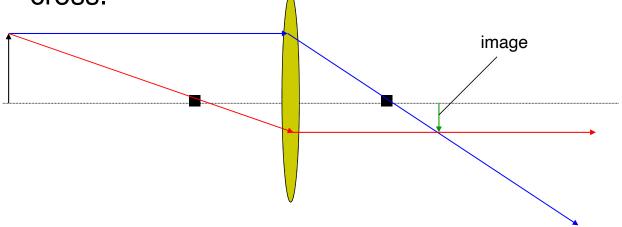
 Step 2, go thru other focal and bend out straight.







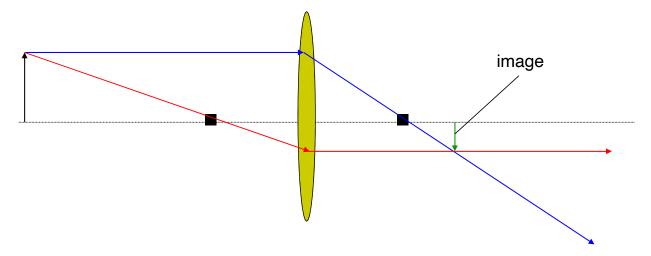
• Image is located where the 2 refracted rays cross.







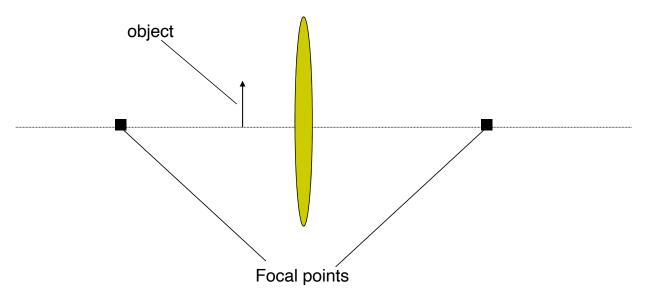
• Image is **REAL**, **INVERTED**, and **SMALLER**







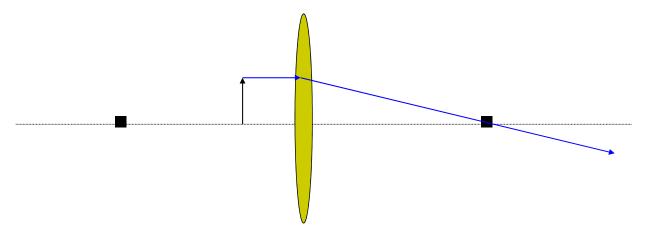
Object inside the focal point



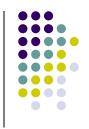




• Step 1-go straight in and bend thru focal pt.







 Step 2-come thru other focal and bend out straight

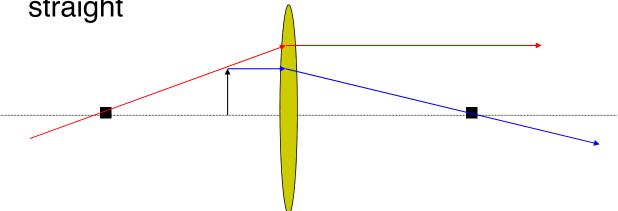
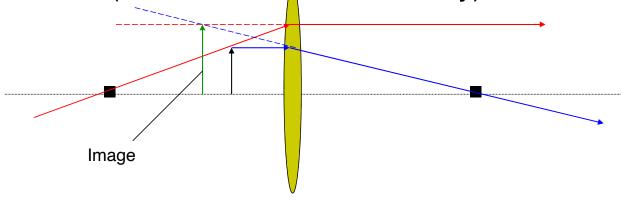






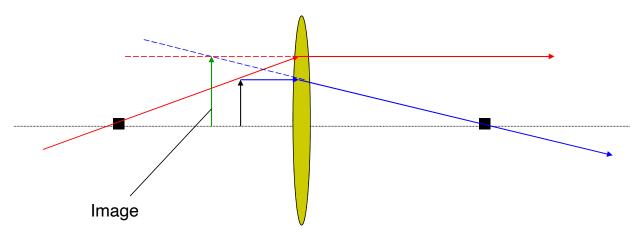
 Image is located where the two refracted rays cross (deluxe Fizicks extend-a-ray)







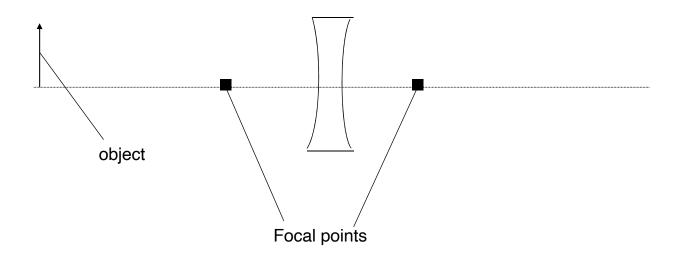
• Image is VIRTUAL, UPRIGHT, and LARGER







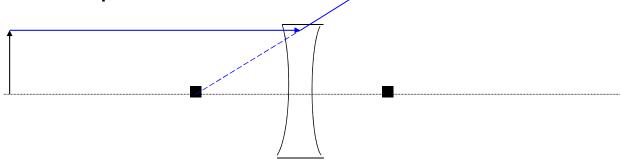
Object outside the focal point







Step 1-go straight in and bend away from the focal point







• Step 2-go towards the other focal pt. and bend out straight.

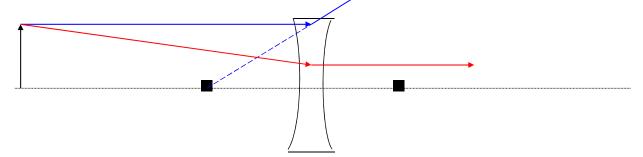






 Image is located where the 2 refracted rays cross (deluxe Fizicks extend-a-ray)

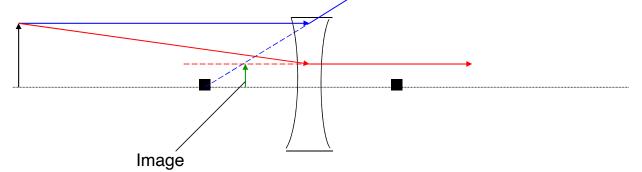
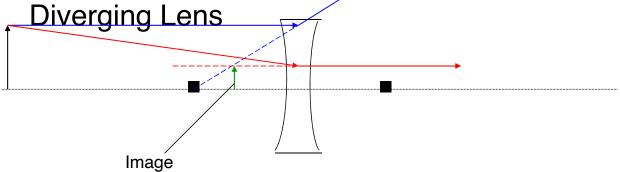






Image is Virtual, Upright, and Smaller. This
is ALWAYS the type of image you get with a







• Do the ray diagram worksheet