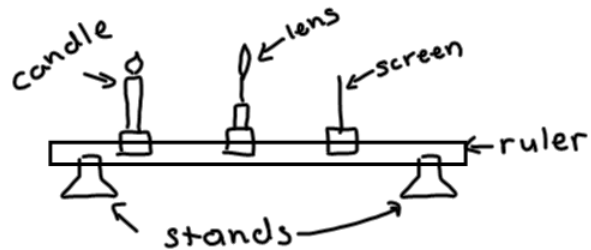


Names _____

Lens Lab

Materials: 2 meter sticks, 2 meter stick stands, 1 lens holder, 1 candle holder, 1 screen holder, 1 candle, 1 index card.

Procedures: Set up your optical bench (see diagram). Move the optical elements around until the image is in focus. Measure the image distance (center of lens to screen) and the object distance (center of lens to center of candle). Use this information to calculate the focal length of the lens. Repeat with same lens then use a different lens and repeat twice.



Data:

Lens	Image distance (d_i)	Object distance (d_o)	Focal Length	Type of Image
Black Edge Trial 1				
Black Edge Trial 2				
Clear Edge Trial 1				
Clear Edge Trial 2				

Calculations: Show how you calculated focal length for each trial