Names.

Materials:

1 Meter Stick

1 Candle or Light Bulb

1 Convex Lens

2 Meter Stick Supports

1 Lens Holder

1 Note Card

1 Lighter (if using candle)

1 Piece of paper towel to catch wax (if using candle)

#### Procedure: Circle correct answers where they apply.

Caution: Tie long hair back and use caution with open flame.

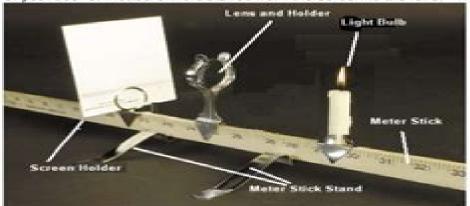
 Hold the lens about 30 cm from your eye. Put your finger about 5 cm behind the lens. The image appears \_\_\_\_\_ the object. B) smaller than C) the same as

A) Jacoer than

Hold the lens at arm's length and look at an object on the other side of the room. The image appears the object.

A) larger than B) smaller than C) the same as

3. Place the lens at 40 cm and the screen somewhere on the meter stick. Face the lens end of the bench toward the window or other bright object. Do not place the light bulb on the set up yet. Slide the screen along the meter stick until a clear image appears of your scene. Measure the distance from the screen to the lens. This is the focal length.



Focal Length = \_\_\_\_

- 4. Set up your 'optical bench' as shown in the figure at left. Place your candle / light bulb at the 20 cm mark for ease of calculations.
- The image on your screen appears than the object.
- A) larger than B) smaller than C) the same size as
- 6. The image is \_\_\_\_ A) upright B) inverted

In the following four cases

- Do = distance from lens to the candle / light bulb
- D. = distance from lens to screen
- H<sub>i</sub> = height of image on screen
- H<sub>o</sub> = height of object.
- Case 1: Place the lens at a distance that is more than twice the focal length from the candle. Adjust the screen to focus the image.

The image you see is \_\_\_\_ the object.

A) larger than

B) smaller than C) the same as

Convex Lens Lab

D<sub>0</sub> = H<sub>0</sub> = H<sub>0</sub> =

Case 2: Place the lens at a distance that is equal to twice the focal length from the candle. Adjust the screen to focus the image. The image you see is \_\_\_\_ the object.

A) larger than
 B) smaller than
 C) the same as

D<sub>0</sub> = \_\_\_\_\_\_ H<sub>0</sub> = \_\_\_\_\_\_ H<sub>1</sub> = \_\_\_\_\_\_

Case 3: Place the lens at a distance that is between one and two focal lengths from the candle. Adjust the screen to focus. The image you see is \_\_\_\_ the object.

A) larger than
 B) smaller than
 C) the same as

D<sub>0</sub> = D<sub>1</sub> = H<sub>0</sub> = H<sub>1</sub> =

Case 3: Remove the cardboard screen and support. This last trial will give a virtual image that can not be displayed on a screen. Place the lens at a distance that is less than one focal length from the candle / bulb. To observe the image look through the lens toward the candle.

The image you see is the object.

The image is \_\_\_\_. The image is . .

A) larger than A) upright A) virtual

B) smaller than B) inverted.

C1 the same as

B) real

# **Convex Lens Lab Answers**

**JR Anderson** 

### **Convex Lens Lab Answers:**

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