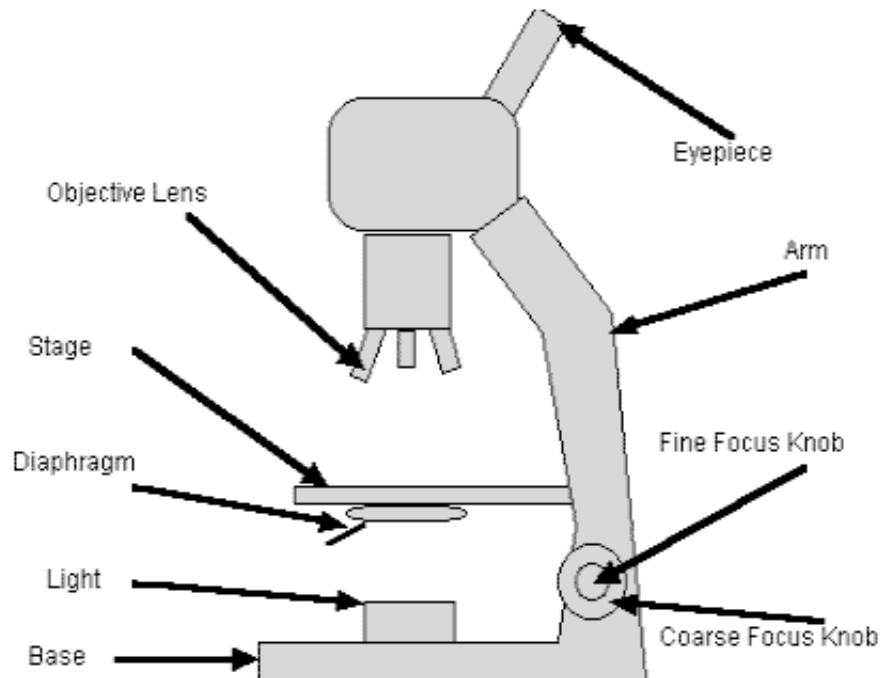


**LAB\_How to Use a Microscope**

Date \_\_\_\_\_

Last Name \_\_\_\_\_, First \_\_\_\_\_ per \_\_\_\_\_

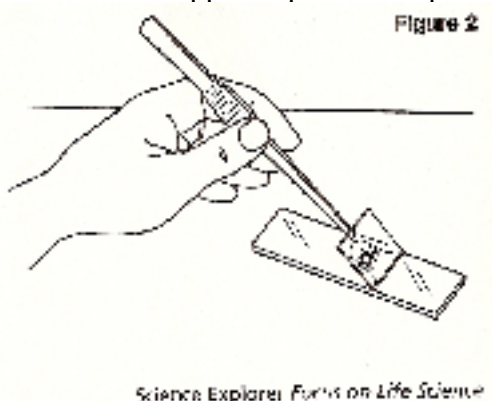
Highlight the labels as your teacher discusses each part of the microscope.

**Carrying a microscope**

1. When you carry a microscope, why should you carry it with one hand on the arm and the other hand under the base? \_\_\_\_\_
2. Why should you hold a microscope slide by its edges? \_\_\_\_\_

**Procedure: Prepare a slide with the letter d**

3. Cut a small letter d from a newspaper and place it in the center of a clean microscope slide so that it is in normal reading position.
4. Use a dropper to place a drop of water over the letter.



5. Use forceps to carefully lower a cover slip over the letter. Make sure no air bubbles get trapped under the cover slip.
6. Absorb the excess water by touching a folded piece of a paper towel to the water that comes out around the edges.
7. Start by viewing the letter with low power. Record your observations on the next page.

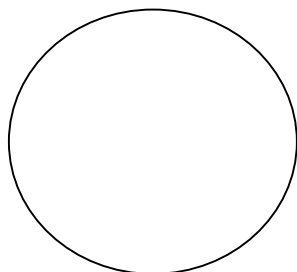
**Observations**

1. Record the total magnification of the microscope set at each objective.

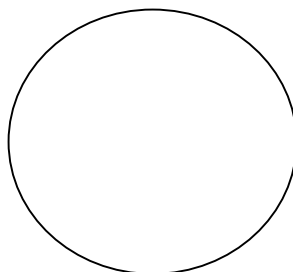
Low Power = \_\_\_\_\_ Medium power = \_\_\_\_\_ High power = \_\_\_\_\_

2. Draw the letter as you see it under each objective.

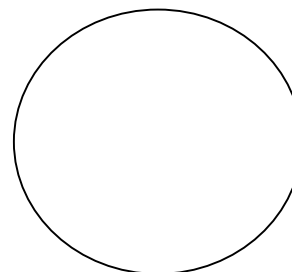
low Power



medium power



high power



3. When the letter d is placed on the slide at normal reading position, does it look like it is in normal reading position when you view it under the microscope? \_\_\_\_\_  
 a. Besides it being larger and magnified, How else is it different? \_\_\_\_\_  
 \_\_\_\_\_
4. As you look at the letter d under the microscope move the slide to the left. And then to the right  
 a. When you moved the slide to the left, which way did it appear to move in the microscope? \_\_\_\_\_  
 b. When you moved the slide to the right, which way did it appear to move in the microscope? \_\_\_\_\_  
 c. When you moved the slide up which way did it appear to move in the microscope? \_\_\_\_\_  
 d. When you moved the slide down which way did it appear to move in the microscope? \_\_\_\_\_
5. Describe how the ink looks different in the microscope than it does with your unaided eye. \_\_\_\_\_
6. Why should you use the low power objective first when locating objects under the microscope? \_\_\_\_\_
7. Suppose you were chasing a microorganism as you were viewing it under a microscope. You notice that the organism moves toward the top of the slide.  
 a. In what direction did the organism actually move? \_\_\_\_\_  
 b. Which way would you move the slide in order to chase it and keep it in the view?  
 \_\_\_\_\_
8. Describe how successful you were in focusing and using the microscope. \_\_\_\_\_  
 \_\_\_\_\_