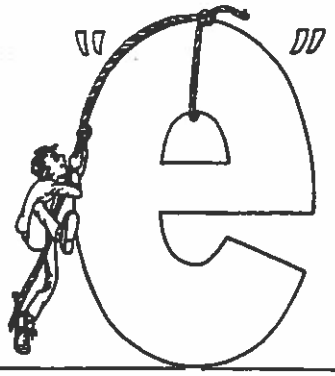
Name_____
Date_____
Per_____ Page_____

The ENORMOUS



Objective: _____
_____
_____
_____

Research:

microscope:_____
_____
simple microscope:_____

convex lens

X:_____
hand lens:_____
compound microscope:_____
_____
most compound microscopes:_____
_____
wet mount slide:_____
_____
_____

Procedure:

1. Make sure the slide you are using is clean.
2. Place a drop of water on the center of the slide
3. With the tweezers, place the letter e right side up onto the drop of water. You may have to fix it if it flips over.
4. Gently touch the cover slip to the edge of the drop of water, and then gently lower the cover slip onto the drop of water and the letter e. (Using your pencil tip will help. This prevents air bubbles)
5. Use a hand lens to observe the wet mount slide.
6. Draw a picture of what you observe

7 Put the slide on the compound microscope stage with the letter e over the hole in the stage.j

8. Adjust the microscope to low power, focus, and draw what you see. (EXACTLY!)

9. While looking into the eyepiece, move the slide to the right, to the left, away from you and toward you. What happens to the e when you move the slide to the right? _____ What happens when you move the e away from you? _____

10. Switch the medium power objective into place. Don't move the coarse adjustment, you should only need to use the fine adjustment to get the object into focus. Draw exactly what you see.

11. Now switch the microscope to high power. Don't move the coarse adjustment. You should only need to move the fine adjustment knob to get the e into focus. Draw exactly what you see (you will not be able to see the entire e)

Discussion Questions:

1 Why is it important to use a clean slide and cover slip?_____

_____

2. Why does a small letter e work better than a capital E?_____

_____

3 Which gave the clearest image of the e: the hand lens or the microscope?_____

_____ Why?_____

_____

4. What is the difference between a simple and a compound microscope?_____

_____

5. What does a compound microscope help you do?_____

_____

6. Why do you think scientists use such a tool?_____

_____

7. What happens to the e when you move the slide to the left?_____

8. In general, what happens to the object when you move the slide in any direction?

_____

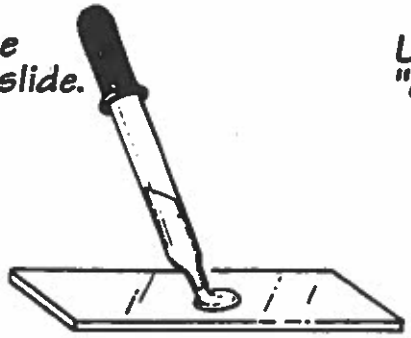
page_____

The ENORMOUS "e"

Preparing A Wet Mount Slide

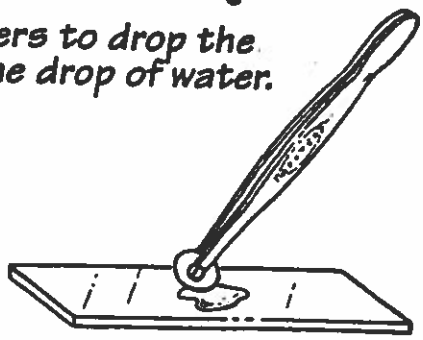
Step 1

Place water on the center of a clean slide.



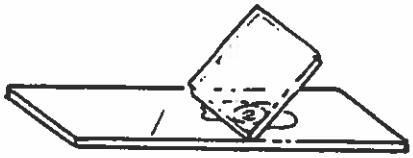
Step 2

Use tweezers to drop the "e" onto the drop of water.



Step 3

Gently touch the cover slip to the edge of the drop of water then lower the cover slip to cover the "e" and the water.



Step 4

Drawings of My Enormous "e" Wet Mount Slide When Magnified

Hand Lens

_____x

Low Power

x

Medium Power

x

High Power

x