

E-Z MICROSCOPE

Microscope Assessment

Materials: compound microscope slides cover slips newsprint scissors

Procedure:

1. Predict what the small letter "e" will look like under the microscope.

Your prediction: _____ Teacher's Initials: _____

2. Properly carry your microscope to your lab table.
3. Cut out a lower case letter "e" from the newsprint.
4. Prepare a wet mount of the letter "e". Note that the "e" must be placed UPRIGHT on the slide.
5. Observe under scanning power. Teacher's Initials: ____ What is the total magnification? ____
6. Observe under low power. Teacher's Initials: ____ What is the total magnification? ____
7. Observe under high power. Teacher's Initials: ____ What is the total magnification? ____
8. Answer questions below.

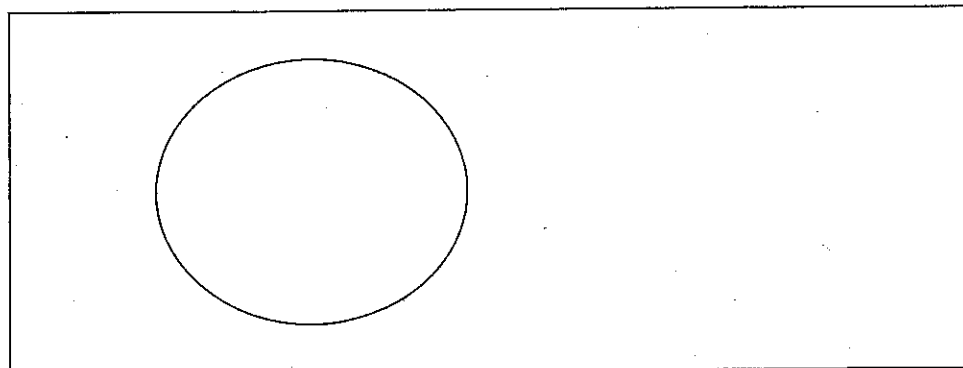
Questions:

1. What 3 unusual things do you observe about looking at the letter "e" with the microscope?
1) _____
2) _____
3) _____
2. How did the "e" look under low magnification? *Explain how this compares with the prediction you made above?*

3. What happens to the image of the "e" as you move the slide *away* from you when looking through the microscope?

4. What happens to the image of the "e" as you move the slide *to the left* when looking through the microscope?

5. Draw a picture of the "e" as you see it under low or high power (not scanning power!). *Label it according to the guidelines given in class.*



HOW DOES IT STACK UP? Microscope Assessment

Materials: Prepared slides with 3 different colored threads placed on top of one another.
Compound microscope.

Hypothesis: Look at the prepared slide without the microscope, and predict which color thread is on the top, middle, and bottom

Your prediction: _____ Teacher's Initials: _____

Procedure: Write a step by step procedure detailing how you would use the microscope to determine and prove which color thread is on the top, middle and bottom. Be detailed enough so that someone else could follow your directions.

Conclusion: Use your procedure to test your prediction. Explain in detail, whether your findings supported your prediction or not.
