

Introductory Microscope Lab Answer Sheet

Name _____

Date _____

Period _____

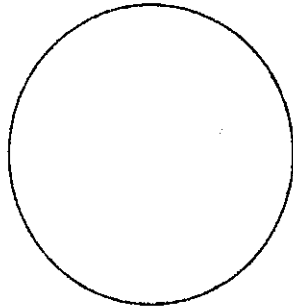
Purpose: To practice microscope skills

To observe how images change under microscope lenses

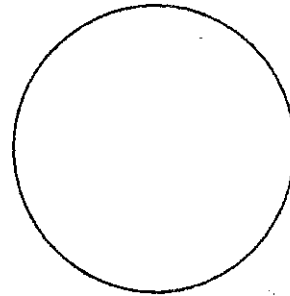
Materials: Light Microscope
"e" Slide
Thread Slide

Part I: "e" Slide

Data:



4x



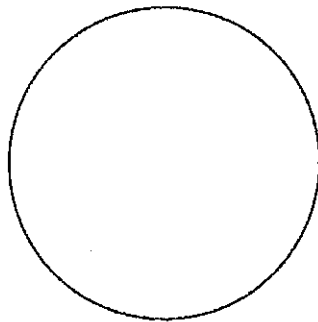
10x

Questions

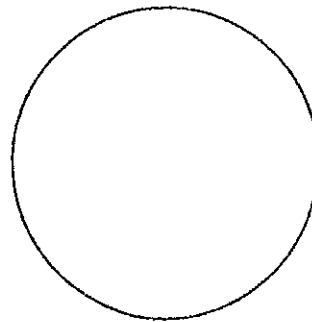
1. What three visual changes occur when you look through the lenses?
2. What happened to the image when you moved the slide to the right?
3. Why?

Part II – Thread Slide

Data



4x



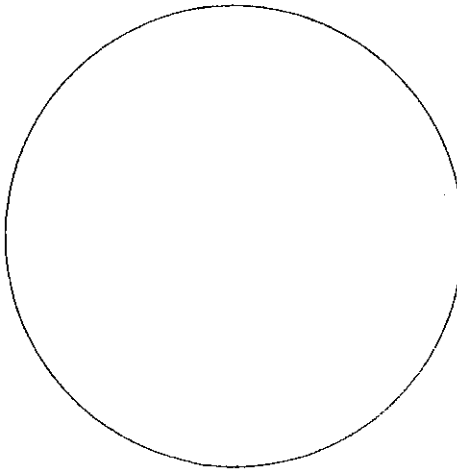
10x

Questions

1. Can you focus on all threads clearly or 10x power?
2. Why or why not?

Station C

8. Choose a prepared slide from the box on the lab table. First, view the slide under the 10X objective. Draw what you see and label the drawing (the label on the slide will tell you what the specimen is).
9. View your prepared slide under the 40X objective and draw what you see. Label the drawing.
10. Return the prepared slide to the box. Unplug your microscope, put the lowest power objective lens in place, and put the plastic cover on your microscope. Make sure that your lab station is clean and neat.



Station D

11. Experiment with looking at under the stereo (dissecting) microscope. Be sure to give everyone a turn. No drawing required.

Analysis of Introducing the Microscope

1. How does the letter "e" as seen through the microscope differ from the way an "e" normally appears?
2. When you move the slide to the left, in what direction does the image (specimen) appear to move?
3. When you move the slide up, in what direction does the image appear to move?
4. Explain why a specimen to be viewed under the microscope, must be very thin.
5. Why should you only use lens paper to clean the lenses of your microscope?
6. What is the proper way to carry a microscope?
7. Why should you never leave the microscope near the edge of the lab table?
8. Why do you cover your microscope when you finish your lab?
9. How is the stereo microscope different from the compound light microscope you used?