

Name: _____

Date: _____

Microscope

How do microscopes aid scientific observation?

Materials

Microscope

Prepared thread slide

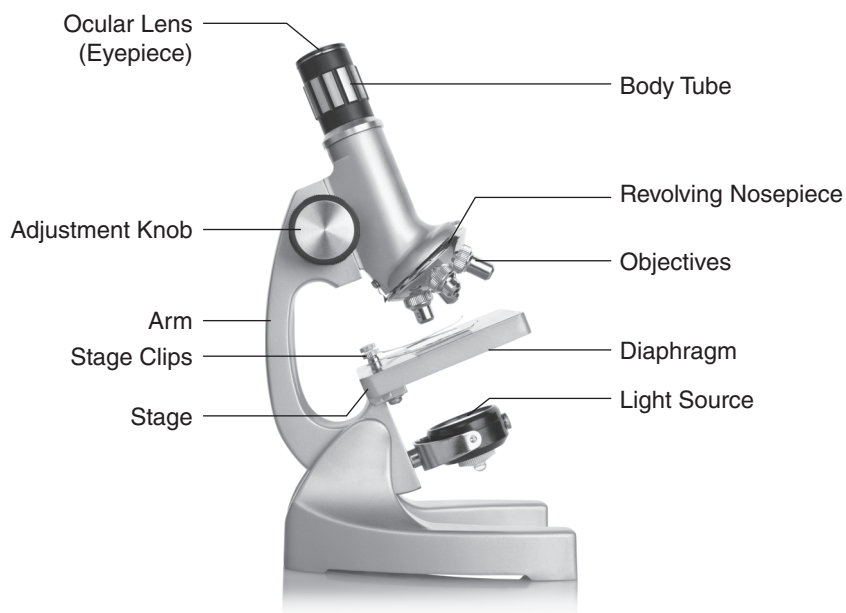
Prepared letter e slide

Prepared pond water slide

Procedure

1. Look at the diagram of the microscope on the next page and familiarize yourself with the parts of the microscope.
2. Place the microscope on the table with the arm facing you. Be sure the microscope is a good distance away from the edge of the table.
3. Place the lowest power objective so that it is the one that will focus on the object. Turn on the microscope light and be sure the field of view is clear.
4. Place the prepared letter e slide on the stage and secure it with the stage clips. Make sure the item you are looking at is centered under the objective.
5. While looking through the eyepiece of the microscope use the coarse adjustment knob to focus the object for clear viewing. Use the fine adjustment knob to focus on more detail.
6. Once you have the “e” in focus make a detailed diagram of exactly what you see. Put your diagram in the box provided.
7. While looking from the side move the medium power objective into position so that it is the one that will focus on the image.
8. Repeat Steps 5 and 6.

9. Repeat Steps 5–8 for the prepared thread slide and for the prepared pond water slide.



Letter e Slide	
Low power	Medium power
Colored Thread Slide	
Low power	Medium power

Prepared Pond Water Slide	
Low power	Medium power

Questions

1. What part of the microscope should you hold and support when carrying it to your table?
2. What parts of the microscope control the amount of light that is used?
3. What is the magnification of your eyepiece?
4. Why is it best to use the low magnification when observing things through the microscope?
5. What was the coolest thing you saw in the microscope?