Name _____ Period _____ Date _____

Your Progress:

- Mastery
- Proficient
- Developing
- Beginning

Lesson 1: How Do I Make a Wet Mount

Activity 1.1

Purpose

The purpose of this lesson is to learn to properly wet mount a subject, focus it correctly on the microscope and record your results by drawing the image carefully.

Word Wall Words

Wet Mount: _____

Magnification: _____

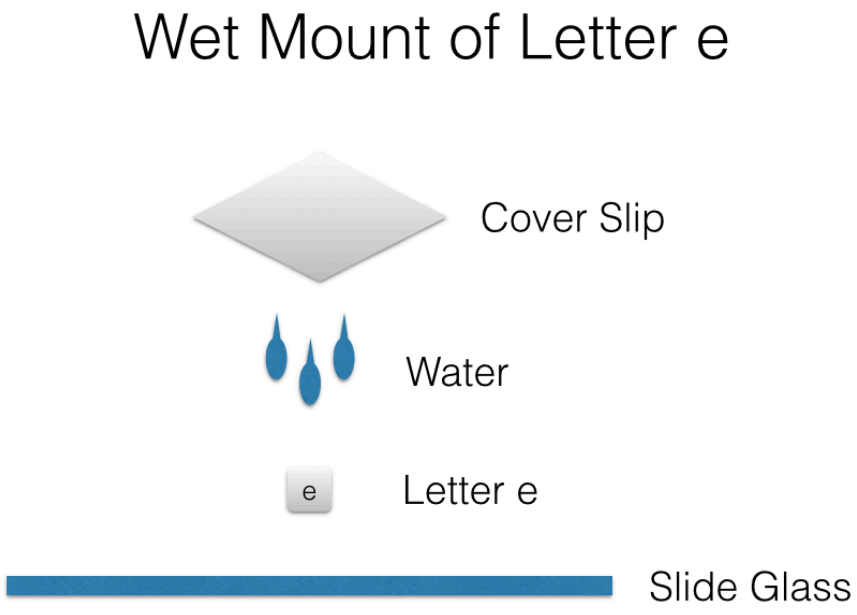
✚ Safety

In order to protect the equipment and get the best lab results, follow the microscope safety instructions given in the "Microscope Insurance" video.

Procedure

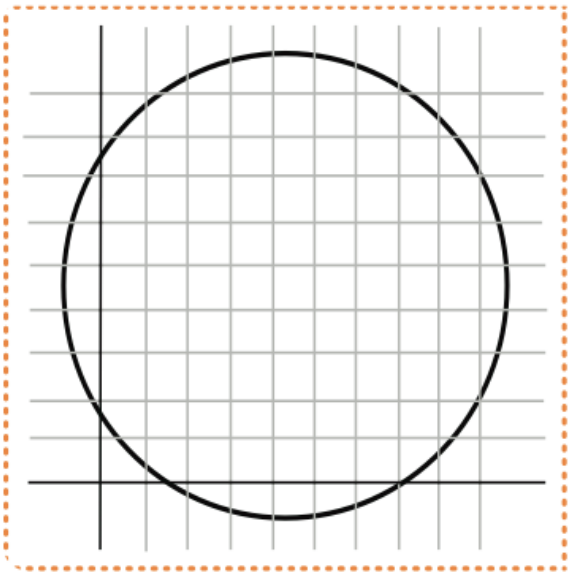
First, prepare a wet mount slide of a lower case letter "e", cut from a newspaper.

- Locate a single, lower case, letter "e" from the text of a newspaper article and cut it out.
- Place it in the center of a flat glass slide.
- Add 2-3 drops of water to the slide, placing them directly on top of the letter.
- Hold the cover slip at a 45˚ angle above the letter and drop it onto the slide.



Next, place the slide on the microscope and focus it on the lowest magnification.

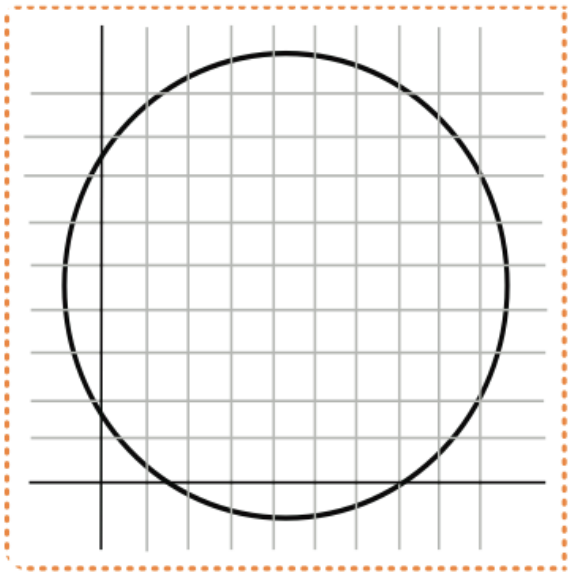
- Place the slide on the stage of the microscope and secure it with the stage clips.
- Set the objective lens to its lowest setting (4x) and look through the ocular lens (10x).
- Move the slide until the "e" is in the center of the field of view and use the course adjustment knob to bring the image into focus.
- Use the fine adjustment to bring the image into as clear a focus as possible.
- Carefully draw exactly what you see in the circle on the next page:



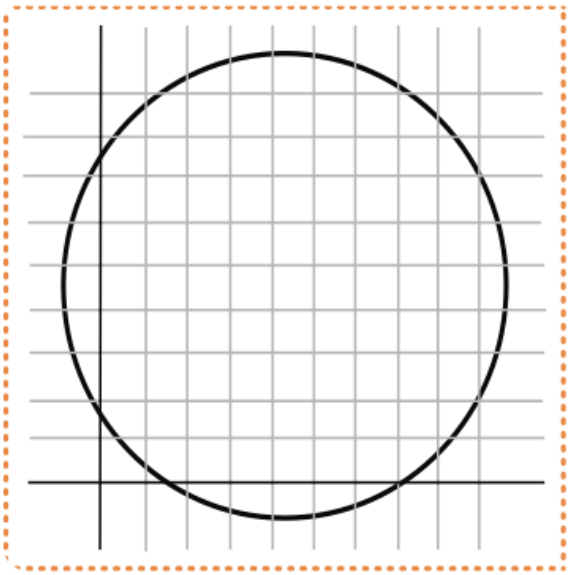
Magnification: _____

Finally, place adjust the microscope to the higher magnifications and record the observations.

- While the subject is in focus, change the objective lenses to 10x (medium) and then 40x (high).
- Use only the fine adjustment knob to adjust the focus on 40x (high).
- Record what your observations by carefully drawing what you see.



Magnification: _____



Magnification: _____

Follow-up Questions

1. What do you notice about the orientation of the "e" when you compare it to how it looks in the microscope and how it looks on the slide?

   _____

   _____

   _____

2. Move the "e" just a little bit towards you. What direction does the "e" go in the microscope field?

   _____

3. Recenter the "e". Move the "e" just a little bit to your right. What direction does the "e" go in the microscope field?

   _____

4. Describe the relationship between the direction you move the slide and the direction the specimen moves in the microscope's visual field.

   _____

   _____

   _____