

Name: _____ Period: _____ Date: _____

Microscopy Drawings

Act. 35 A License to Learn / Act. 36 Looking for Signs of Micro-Life

(SEPS 2, 5, 7.LS.1, 7.LS.5)

(SKILLS: using appropriate tools/technologies, making observations, keeping accurate records)

PROCEDURE:

You will observe 4 DIFFERENT prepared slides. At least one must come from the "plant" category, and at least one must come from the "animal" category. You will pick your two BEST to be graded.

1. **NAME:** Record the name of the microbe or cell/tissue, etc. you are viewing in the top box.
 - a. This can be found on the white tab of each slide.
2. **MAGNIFICATION:** Calculate and record the total magnification.
 - a. Do this by multiplying the magnification of the eyepiece (usually 10X) by the magnification of the objective. **(Ep x Obj = TM)**
 - b. There are usually three objectives so be sure to calculate the total using the final objective. (The one that matches your drawing/picture.)
3. **OBSERVE:** Record your observations (data) by DRAWING. There is also an optional digital version. This would be **in addition** to what you draw by hand on paper.
 - a. Be neat, accurate and detailed, and color appropriately.
 - b. Remember, some prepared slides are stained to observe tissues easier. Use the colors you observe.
4. **LABEL:** Label the drawing appropriately.
 - a. You may have to write creative descriptions or look up information on the Internet.

DATA:

Fill in the names of the two drawings you want graded in "Specimen #1" and "Specimen #2". In the box to the right, fill in the names of the other two specimens you observed.

Specimen #1: _____

Specimen #2: _____

- name of microbe/object (1)
- total magnification calculated(2)
- drawing labeled appropriately(1)
- neat (2)
- accurate and detailed (2)
- colored appropriately (1)

- name of microbe/object (1)
- total magnification calculated(2)
- drawing labeled appropriately(1)
- neat (2)
- accurate and detailed (2)
- colored appropriately (1)

Observations recorded for the other two slides?

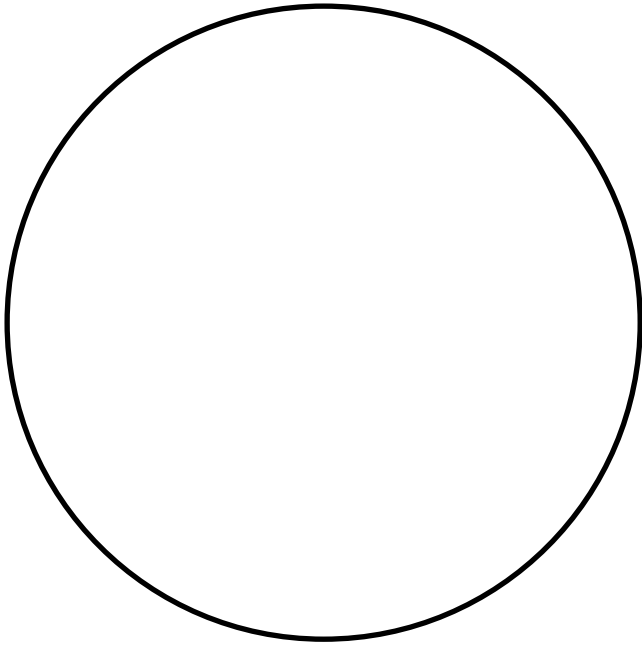
Specimen _____ (2) Specimen _____ (2)

TOTAL SCORE: _____/22 points

Teacher Comments:

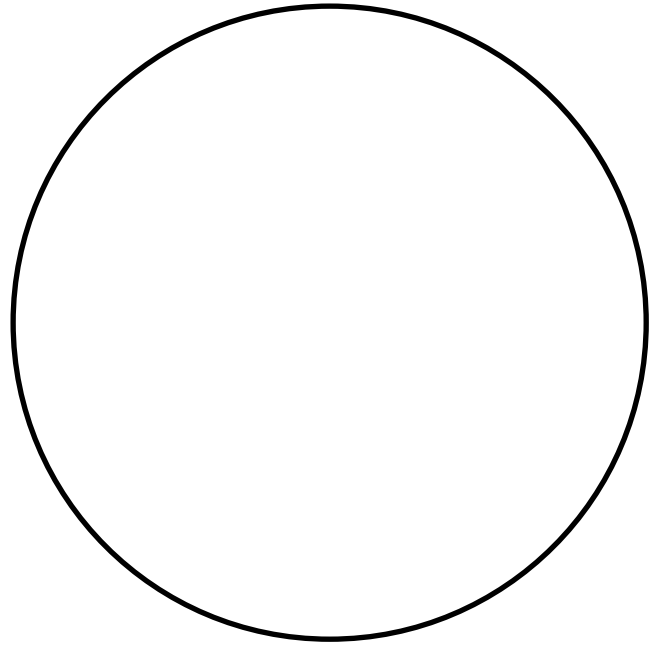
Specimen Name:

Magnification:



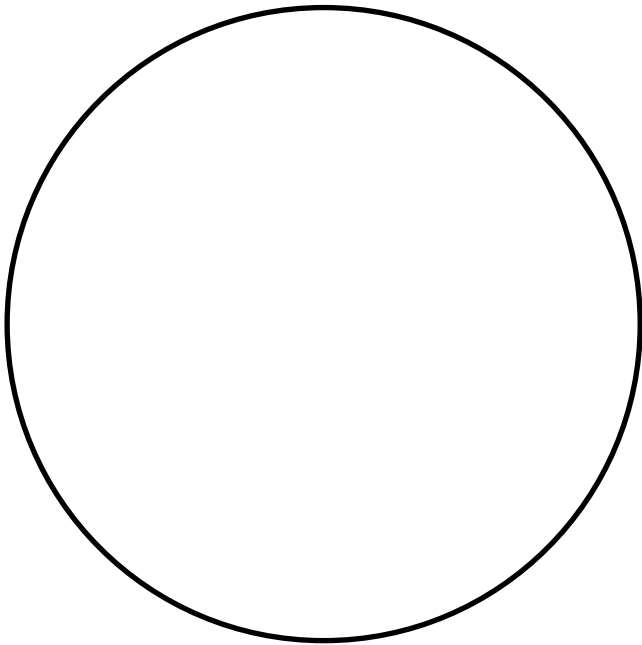
Specimen Name:

Magnification:



Specimen Name:

Magnification:



Specimen Name:

Magnification:

