Name _____ Period _____ Date _____

Your Progress:

- Mastery
- Proficient
- Developing
- Beginning

Lesson 2: What is in my Yogurt?

Activity 2.1

Purpose

The purpose of this lesson is to look carefully at yogurt to determine if it also contains living cells.

Word Wall Words

Yogurt:_____

Bacteria:_____

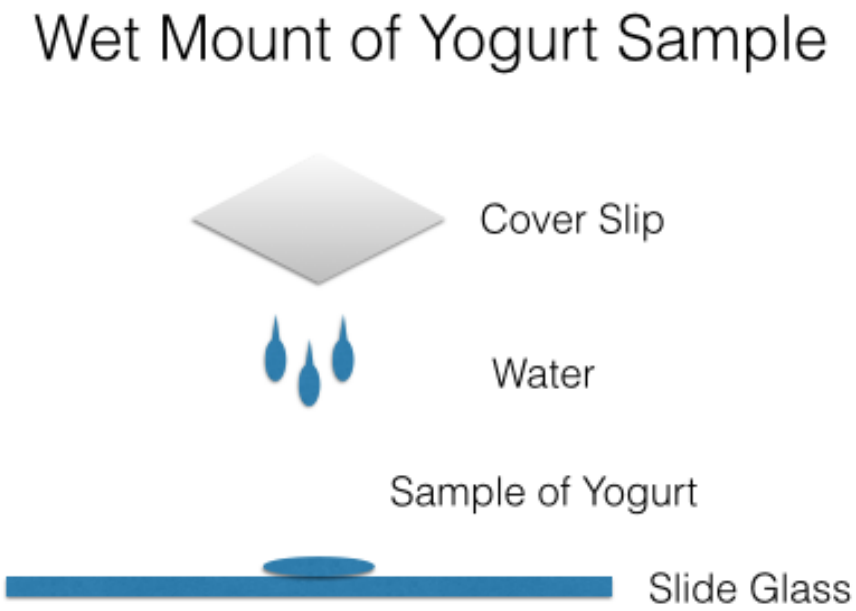
✚ Safety

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

Procedure

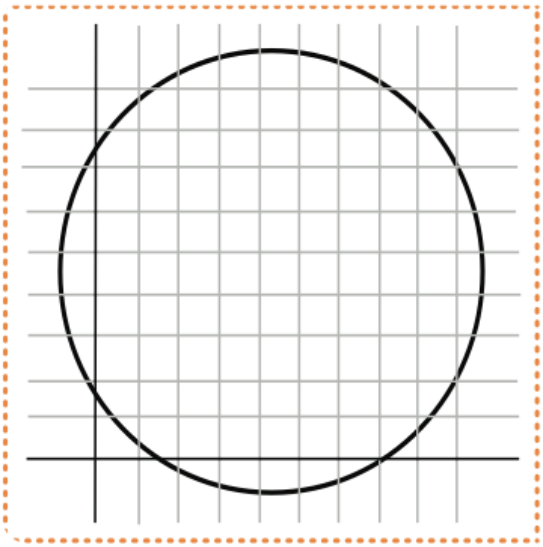
First, prepare a wet mount slide of yogurt culture.

- Dip a toothpick into the yogurt.
- Smear it on 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.

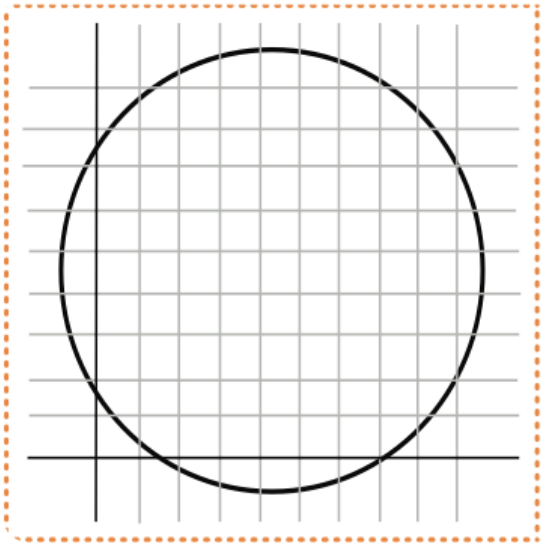
- Place the slide on the stage of the microscope and secure it with the stage clips.
- Set the objective lens to its lowest setting (4x) and look through the ocular lens (10x).
- Move the slide until the sample is in the center of the field of view and use the course adjustment knob to bring the image 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:



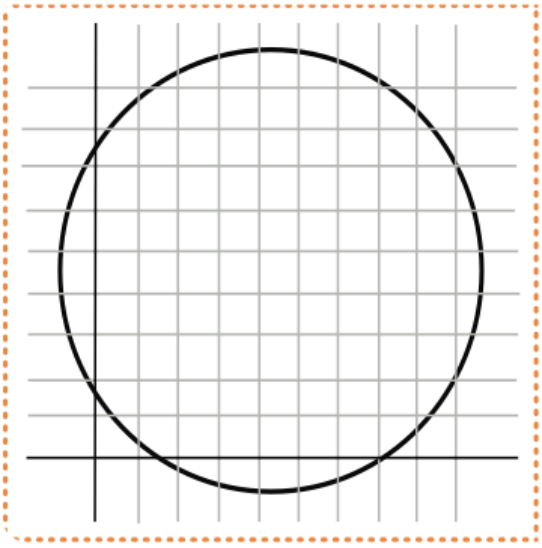
Magnification: _____

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.
- Record what your observations by carefully drawing what you see.



Magnification: _____



Magnification: _____

Modeling Score:

Base on the rubric I think that I am at:

_____ **Mastery**: Time and care was taken in producing the model. There is attention to detail. The model strongly reflects observations from the lab.

_____ **Proficient:** There is some attention to detail. The model reflects observations from the lab.

_____ **Developing:** There is barely any attention to detail. The model hardly reflects observations from the lab.

_____ **Beginning:** There is no attention to detail. The model does not reflect observations from the lab.