

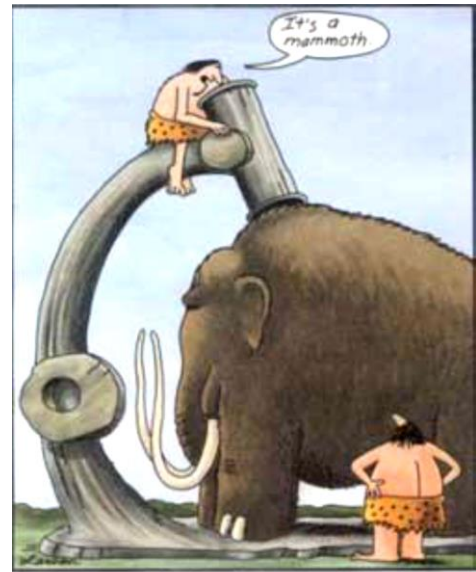
Plant & Animal Cell Microscope Lab

MATERIALS:

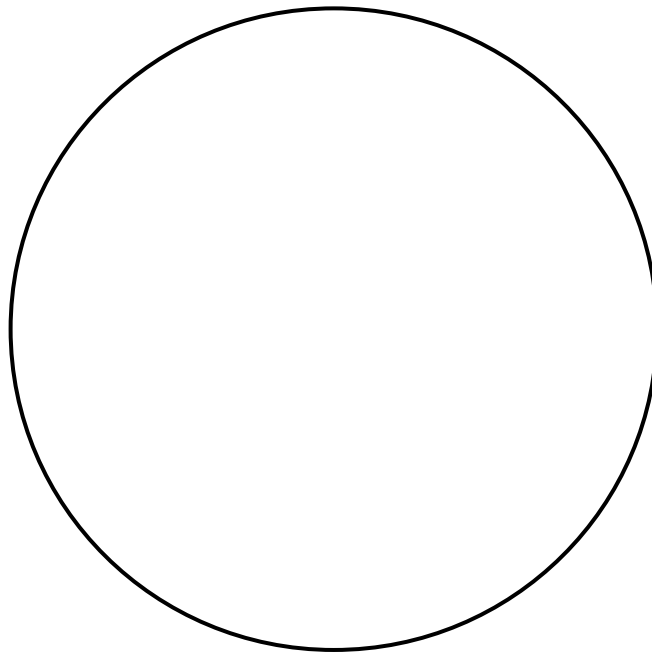
- Lab Worksheet
- Pencil
- Compound Microscope
- 2 prepared slide
 - o 1 animal cell
 - o 1 plant cell

PROCEDURE:

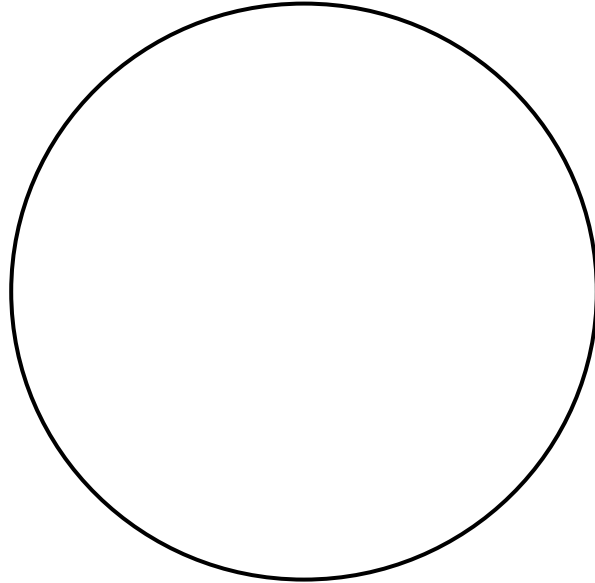
1. You will be working in groups of 3.
2. Obtain all necessary materials
3. Turn the objective lenses so that you are using the LOW POWER objective lens
4. Take one of the prepared slides and place it on the stage and secure it with the stage clips
5. Turn on the microscope
6. Look into the eyepiece
7. Slowly turn the COARSE ADJUSTMENT KNOB to focus the microscope under LOW POWER.
 - o THE **COARSE ADJUSTMENT KNOB** IS **ONLY** USED WITH THE **LOW POWER** OBJECTIVE LENS!!!
8. Use the diaphragm to adjust the light intensity. This may improve the image.
9. Draw what you see in the circle below. Label whether it is an animal or a plant cell. Label the structures that are visible. (3)



Early microscopes

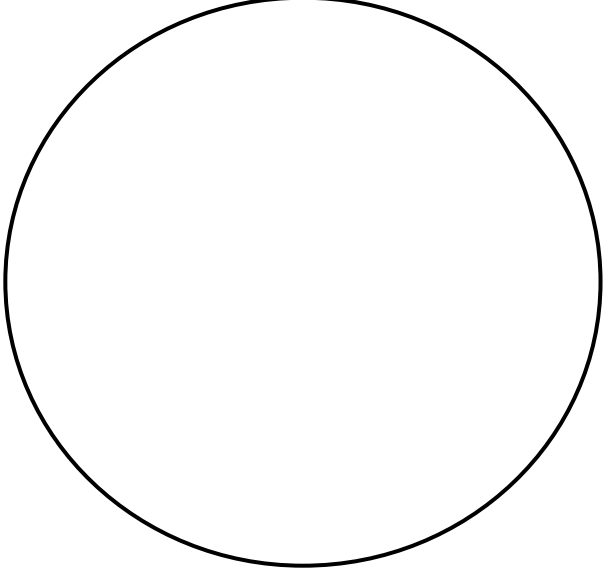
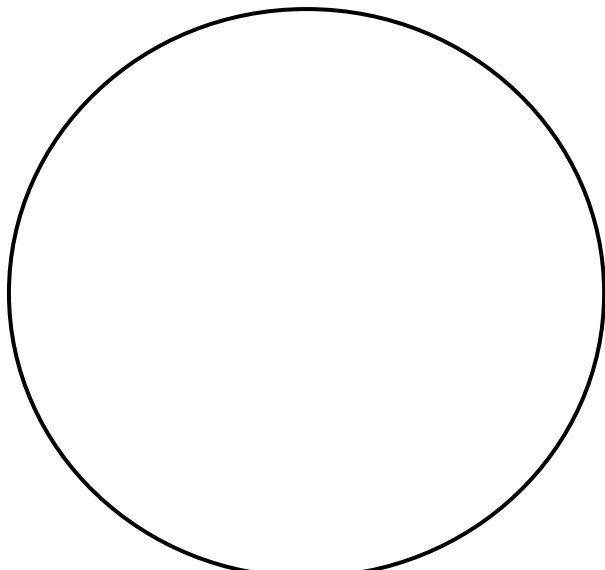


10. Look into the eyepiece and carefully move the slide so that the specimen you are interested in is centred.
11. Switch to the MEDIUM POWER objective lens.
12. Look into the eyepiece. The specimen should be relatively clear. If it is not clear, use the FINE ADJUSTMENT KNOB to focus the microscope.
13. Draw what you see in the circle below. Label the structures that are visible. (2)



14. Once your group is finished with the first slide. Repeat with the other slide.
15. When you are finished with both slides, turn off the microscope, return the slides, wrap up the cord, and carefully carry it to the counter by the window.
16. **Complete** your drawings and **lab** questions to be **handed in NEXT CLASS!**

DRAWINGS: Circle ANIMAL CELL or PLANT CELL (5)

LOW POWER OBJECTIVE LENS	MEDIUM POWER OBJECTIVE LENS
	

Questions:

- 1. Explain how to properly carry a microscope. (3)**

- 2. Describe the differences you noticed between a plant cell and an animal cell. (2)**

- 3. Compare the drawings you made in this activity. Describe how your images changed when you increased the magnification power. For example, did you see more or less of the specimen, or was it easier or harder to focus on the whole specimen? (2)**
