

Microscope Lab #2

Name: _____

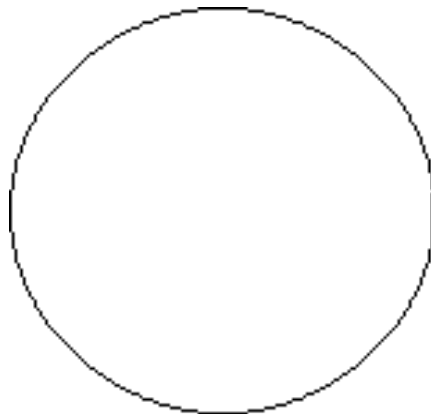
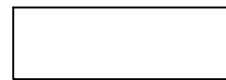
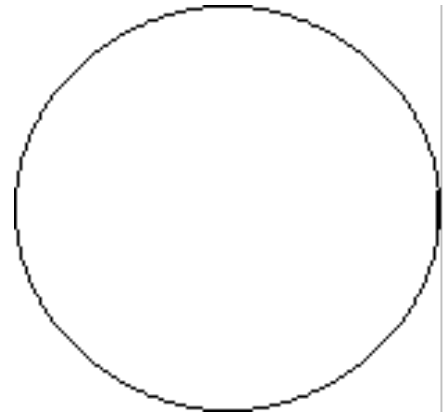
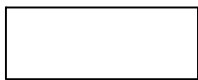
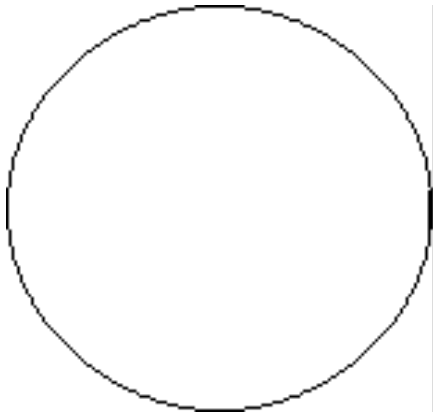
Period: _____

Purpose: The purpose of this lab is to begin to identify and compare plant and animal cells.

Part 1- Plant Cell

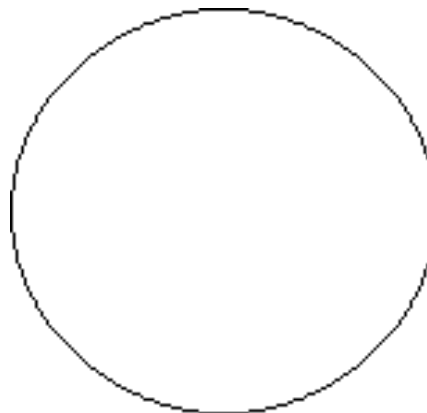
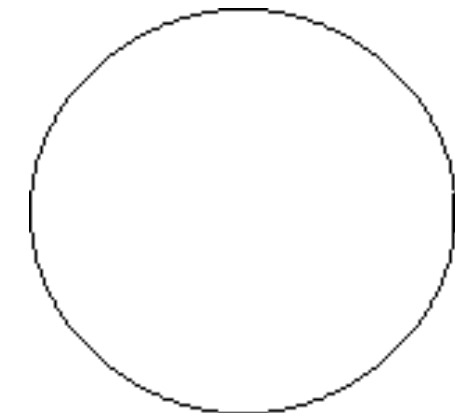
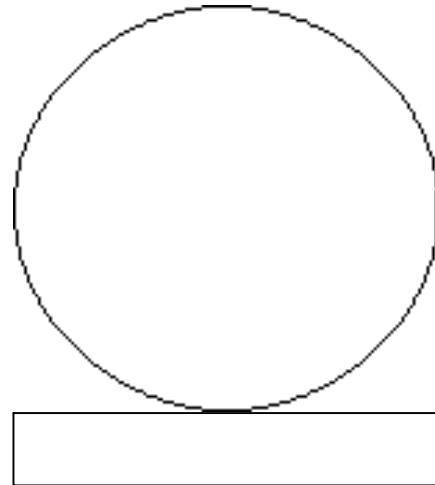
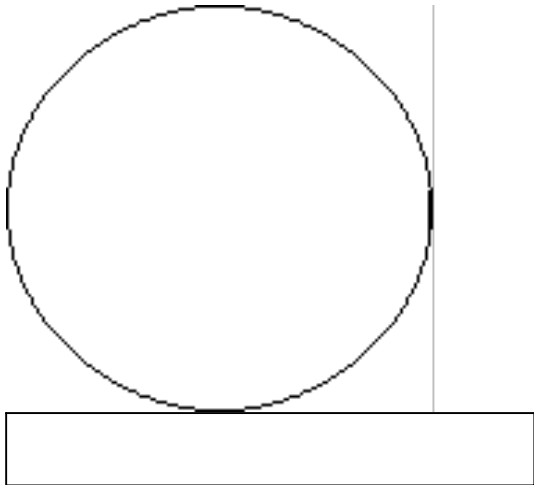
Procedure-

- 1.- Carefully remove an elodea leaf from the stem.
- 2.- Place a drop of water on the slide and put the elodea leaf in the middle of the drop of water. Then continue making a wet mount of the elodea leaf. No stain is required for this lab.
- 3.- Observe the elodea on low power. Focus on the top layer of cells and carefully draw what you see.
- 4.- Carefully rotate to high power, focus and draw what you see. Now focus on one cell and draw what you see.



Part 2- Animal Cell- Procedure

- 1.- Place two drops of water on a slide.
- 2.- Take the wide flat part of a toothpick and scrape the inside of your cheek. Touch the end of the toothpick in the water on the slide.
- 3.- Take the iodine stain and place a drop of stain onto the water drop.
- 4.- Make a wet mount of your cheek cells using a coverslip.
- 5.- Locate the cells under low power and draw what you see.
- 6.- Carefully rotate to high power and pick out a single cell and carefully draw what you see.
- 7.- Repeat the procedure using the methylene blue stain.



Compare your drawings of the two types of stains. Which one allowed you to see more detail of the cell?

Compare your drawings of the plant and animal cells. List and explain any similarities or differences that you see in the table below.

Similarities	Differences

