

# VIEWING PLANT CELLS



Pre-Lab Questions

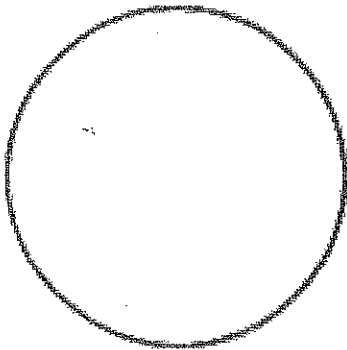
1. What is the function of chloroplasts?
2. Name two structures found in plant cells but not animal cells.
3. Name three structures found in plant cells AND animal cells.
4. What structure surrounds the cell membrane (in plants) and gives the cell support.

## PART A - Onion Cells

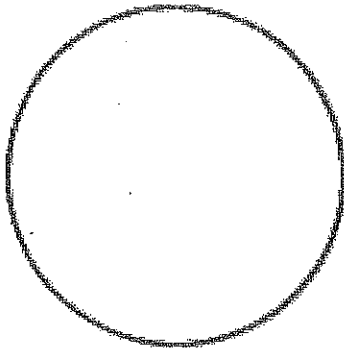
Obtain a prepared slide of onion cells. View under scanning, low and high power. Sketch the cells at each magnification.

Label the:  
-- Cell Wall  
-- Nucleus  
-- Cytoplasm

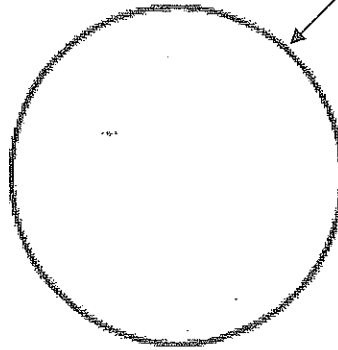
Scanning



Low Power



High Power



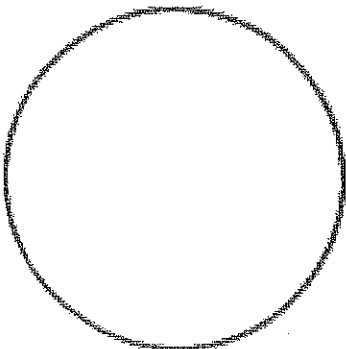
Estimate how many cells you can see under low power: \_\_\_\_\_ high power: \_\_\_\_\_

## PART B - Elodea Cells

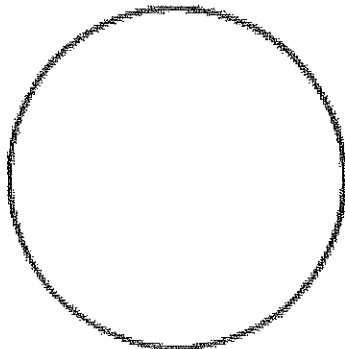
View a prepared slide of an elodea (a simple water plant). Sketch the cells at each magnification. As the slide warms, you may see chloroplasts moving.

Label the:  
-- Cell Wall  
-- Chloroplasts  
-- Cytoplasm

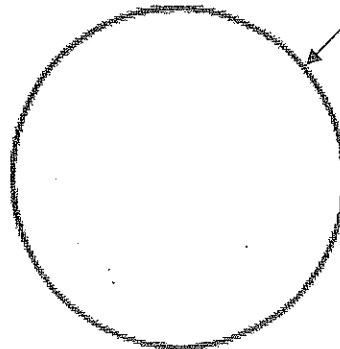
Scanning



Low Power



High Power



Estimate how many cells you can see under low power: \_\_\_\_\_ high power: \_\_\_\_\_

## Post Lab Questions

1. Describe the shape and the location of chloroplasts.
2. Why were no chloroplasts found in the onion cells? (hint: think about where you find onions)
3. Which type of cell was smaller – the onion cells or the elodea cells?
4. Fill out the Venn Diagram below to show the differences and similarities between the onion cells and the elodea cells.

ONION CELLS

ELODEA CELLS

