

Agenda for Wednesday, October 7th 2015

Agenda	Homework
1. Plant Cell Observations	- No homework

Why are we doing this?

So far in lesson 5 we have studied animal cells. We learned that the shape and parts of the cell are connected to the function, or job, the cell performs. Today we will observe two plant cells: the leaf cells of the plant elodea and the bulb cells of an onion. Just like we did with the cheek and nerve cells, you will make sketches of each one, estimate the size of the cell using a ruler, compare and contrast the two cells, and discuss how each cell is specialized for its function.

Today's Procedure

Part 1: Elodea

1. Make a wet mount slide of the elodea. Add one elodea leaf to a slide. Add a drop of water (**do not use dye**) and add the cover slip.
2. Observe the elodea at 40X, 100X, and 400X. Make your drawing at 400X. Draw at least 4 cells (or fewer if you cannot see 4 cells).
3. Label the cell membrane/wall, nucleus, chloroplast, and cytoplasm.
4. Title your drawing "Elodea Leaf Plant Cell"
5. Measure the size of the cell using the small ruler.
6. Be sure your drawing follows the 10 rules of microscope drawings. Follow the rules on Handout 9 from your binder.
7. Clean up your slide with these instructions:
 - Throw away the cover slip and elodea leaf.
 - Dry the slide and return it to the blue tray.

Part 2: Onion

1. Read the instructions on figure 5.3 on page 71 of the IBI book for instructions on how to make a wet mount slide of the onion. A few helpful tips:
 - Lugol solution is found in the brown bottle on your table.
 - Avoid excess folding of the cells by laying part of the membrane on the slide while it hangs from part of the broken half. Do your best!
2. Observe the onion cell at 40X, 100X, and 400X. Make your drawing at 400X. Draw at least 4 cells.
3. Label the cell membrane/wall, nucleus, and cytoplasm.

4. Title your drawing "Onion Bulb Plant Cell"
5. Measure the size of the cell using the small ruler.
6. Be sure your drawing follows the 10 rules of microscope drawings. Follow the rules on Handout 9 from your binder.
7. Clean up your slide with these instructions:
 - Throw away the cover slip and onion skin
 - Dry the slide and return it to the blue tray.
8. Complete the rest of the handout.

I finished early, now what?

1. Optionally complete any of the lesson extensions Schoology (look in the Extensions Folder). This is a good way to challenge yourself with our current topic.
2. Take a laptop and play Cell Craft.