

## Agenda for Thursday, October 8th 2015

Hello students!

I'm sorry to be away from our classroom again. I will be back on Friday and we will continue our plant cell observations then.

Today is a data collection day for our Fast Plants and ponds. Just like on Tuesday, work efficiently to collect and record this data. As you observe your ponds today, try your best to identify the microorganisms you find. Many students asked if they would find the same organisms in different parts of the ponds (i.e. near the soil, in the middle of the water, and at the top). You could easily carry out an investigation of this and find out the answer!

Remember to follow the procedure below. Clean up all your materials and do not leave a mess for any one else. Show our guest teacher that you are responsible and respectful.

I'll see you tomorrow,

Mr. Ower

Agenda	Homework
1. Fast Plant Data (SDRO H2) 2. Pond Observations (IBI H15)	- No homework

### Why are we doing this?

This is a continuation of SDRO lesson 2 and IBI lesson 4. You are collecting Fast Plant data to understand the life cycle of the plant. Similarly, you are collecting pond data to understand the cycle of an ecosystem.

### Today's Procedure

1. Open SDRO handout 2 (Fast Plant Tracking Sheet) in Notability.
2. Divide and conquer: one person get the fast plants, one person get your table's nutrient solution, one person get the graduated cylinder, and one person get the ruler.
3. Measure the volume of the remaining nutrient solution in your Fast Plant system. Record this in the correct space on SDRO handout 2.
4. Refill your Fast Plant system with a total of 250mL of nutrient solution.
5. Collect and record data about your Fast Plants.
6. Take pictures of your Fast Plants.

7. Clean up: return the Fast Plants to the correct light box, return the nutrient solution to the correct spot, return the graduated cylinder to the drying rack, return to the ruler to the drawer.
8. Open IBI handout 15 (Pond Observations) in Notability.
9. Insert a new page into the document.
10. Title the page "Pond Observations: 2 Weeks Later."
11. Obtain your pond and bring it to your table.
12. Remove the lid.
13. Take a picture of the top-view. Insert this into the new page on handout 15 and label it "Top View Picture."
14. Repeat step 13 but with a side-view. The label will be "Side View Picture."
15. Take a pipette, a cover slip, and a microorganism sheet (class copy) from the front table.
16. Use the pipette to get a drop of water from near the surface of the soil in the pond. Place the drop into the well slide. Add the cover slip.
17. Observe the pond water at 40X and 100X. Identify any organisms you see.
18. Write a brief description of what you observe (including any organisms you observe) on the new page of handout 15.
- 19. If you can:** make a scientific drawing of any organisms you observe. This may not be possible due to the relatively rapid movement of the microorganisms.
20. Repeat steps 16-19 with additional drops of water from your pond.
21. Rotate to red, lower the stage, remove the slide.
22. Throw away the cover slip and rinse/dry the slide. Paper towels are located in the cabinet below your sink at your table.
23. Shut down the microscope and return it to the proper cabinet at your table.
24. Return the pipette and microorganism sheet to the front table.
25. Return your pond to the correct spot (on top of the Post-It with your table number).

### **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.