

Agenda for Wednesday, October 28th 2015

Agenda	Homework
1. Fast Plant Reproduction (SDRO H3) 2. Fast Plant Data (SDRO H2)	- Read pp. 10-15 in the IBI textbook.* * This is also the same in the SDRO textbook.

Which NGSS practices, DCIs, and CCs are we meeting?	
Science and Engineering Practices <ul style="list-style-type: none">• Develop and use a model to describe phenomena and unobservable mechanisms.• Conduct an investigation to produce data to serve as the basis of evidence that meet the goals of an investigation.• Use an oral and written argument supported by evidence to support or refute an explanation or a model for a phenomenon.	Disciplinary Core Ideas <ul style="list-style-type: none">• LS1.A: All organisms are made of a cell or many cells; cells have parts that carry out functions• LS1.B: All organisms grow, develop, and reproduce. Crosscutting Concepts <ul style="list-style-type: none">• Cause and effect• Structure and Function

Why are we doing this?
<p>First, we need to complete our exploration of Fast Plant reproduction. Today you will finish documenting the parts of the Fast Plant flowers and carrying out cross-pollination.</p> <p>After this you will collect your data for your Fast Plant. As we come near the end of the Fast Plant life cycle, we will transition from collecting data to analyzing data.</p>

Today's Procedure

General Note: At some point please see Mr. Ower so you can take pictures of the larvae and of those in the pupal stage. When the larvae go into metamorphosis, they are called pupae.

Part 1: Fast Plant Reproduction

1. Open SDRO Handout 3 in Notability. If you do not have this, download it from 7bscience.com from Friday, October 23rd.
2. Below are the steps from when you were doing this on Friday. You had instructions on your handout. Pick up where you left off:
 - A. Read pages 104-106 in the SDRO textbook.
 - B. Complete the definition tables on page 2 of the handout.
 - C. Answer the reflecting questions 1-4.
 - D. Retrieve your Fast Plant and take a picture of a fully intact flower. Use a hand lens to assist you to get a better picture.
 - E. Label the parts you are able to identify.

- F. Repeat steps D-E but with a pollinated flower.
 - G. Complete the reflecting question on page 4.
 - H. Follow steps 1 and 2 on page 98 for pollinating your remaining flowers.
3. Keep your Fast Plant at your table and move on to the next section.

Part 2: Fast Plant Data

Before you start! Update each tracking sheet with the following information. Change the date "10/27" to "10/28." Then, cross off "10/29" and leave a note that says "no data collected today due to limited time."

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.

I finished early, now what?

1. Read IBI (or SDRO) pp. 10-15.