

Agenda for Tuesday, October 20th 2015

Agenda	Homework
1. Osmosis and Carrots (IBI H24) 2. Fast Plant Data (SDRO H2)	- Review lesson 1 vocabulary from study guide. - Review item 1 from "What's on the test" from the study guide.

Which NGSS practices, DCIs, and CCs are we meeting?

Science and Engineering Practices

- 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

- 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

- Cause and effect
- Structure and Function

Why are we doing this?

We need to prepare another investigation to demonstrate the effects of osmosis on cells. We will collect quantitative and qualitative data on a carrot before placing them into freshwater and saltwater solutions.

This is a continuation of SDRO lesson 2. You are collecting Fast Plant data to understand the life cycle of the plant.

Today's Procedure

Part 1: Study Guide

1. Download the study guide from 7bscience.com. Let's discuss this and give you a minute or two to ask questions.

Part 1: Carrots/Osmosis

2. Download IBI handout 24 from 7bscience.com.
3. Follow the instructions on the sheet. Do not do step 6 today.

Part 2: Fast Plant Data

4. Open SDRO handout 2 (Fast Plant Tracking Sheet) in Notability.
5. 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.
6. Measure the volume of the remaining nutrient solution in your Fast Plant system. Record this in the correct space on SDRO handout 2.
7. Refill your Fast Plant system with a total of 250mL of nutrient solution.
8. Collect and record data about your Fast Plants.
9. Take pictures of your Fast Plants.
10. 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. Study for your test!