



Mr. Silluzio
Biology Lesson Plan
Date:

Topic: Osmosis and Tonicity

Summary: Students will continue their study of the cell membrane and transport systems by completing a laboratory experiment on osmosis. This activity guides students through the process of making model cells from dialysis tubing, which is semi permeable much like a cell membrane. Students predict the direction of osmosis as depended on solute concentrations of sucrose. [Click here for Osmosis Lab](#)

Goals/Objectives:

- **Understand that osmosis is dependent on solute concentration.**
- **Understand the term tonicity.**
- **Understand that osmosis plays a critical role in living systems.**
- **Understand that animal and plant cells, because of their differences in structure, differ in terms of the solute concentrations they thrive in.**
- **Understand that some aquatic animals must have strategies in the form of structures that help them to release water.**

Standards:

[Introductory Unit Standards](#)

Time Required: 2 80 minute period

Prerequisite Knowledge: Full understanding of part I of Chemistry of Life unit.

Accommodations: All notes, assignments and due dates are available online.