

Inquiry into Diffusion and Osmosis

Lab Requirements

2014

Friday, November 7th

Today I will prepare for the diffusion lab.

*I will **differentiate** between diffusion and osmosis.*

*I will **explain** water potential in terms of solute and solvent.*

Pre-Lab Requirements:

You should follow the guidelines in your **gold packet** to complete your pre-lab, as you did for the previous enzymes lab. **Complete section I (Introduction) and section II (Materials and Methods).**

- Your lab should be designed for **procedure 2** in the lab manual. (pg. S56) *Forego the others.*
- For your relevant terminology, include definitions of the following:

selectively permeable, aqueous, diffusion, osmosis, hypertonic, hypotonic, isotonic, water potential

- Include the equation, with variables, for water potential.
- Hypothesize which solution (pg. S57) will diffuse most rapidly.

Summary of Part 1

- Please view the following video, designed to mirror [Procedure 1](#) of the diffusion lab.
- After viewing, discuss with your table how surface area and volume impact the rate of diffusion within cells.

Summary of Part 2

Take a look at what you will be doing in part 2.

- Each group will complete one dialysis bag.
- We will share out our results.

