

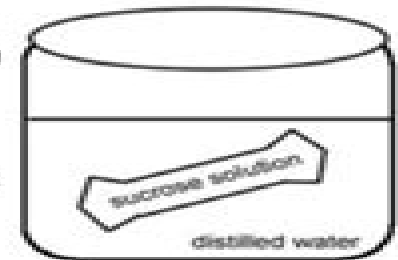
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AP BIOLOGY LAB: DIFFUSION AND OSMOSIS

In this lab, you will observe the process of osmosis and diffusion. You will also learn how to calculate water potential. If you are not familiar with these concepts, make sure that you have looked them up in your textbook. If you don't know what these terms mean, this lab is not going to make sense to you.

OBJECTIVES

- Investigate the processes of osmosis and diffusion in a model of a membrane system
- Investigate the effect of solute concentration on water potential as it relates to living plant tissues



Exercise 1 - Osmosis Across a Membrane

- Obtain 6 strips of dialysis tubing and tie an knot in one end of each.
- Pour approximately 25 mL of each of the following solutions into separate bags.

Distilled Water	0.4 M sucrose	0.8 M sucrose
0.2 M sucrose	0.6 M sucrose	1.0 M sucrose

- Remove most of the air from the bag (but leave a little bit of space) and tie the baggie.
- Rinse the baggie carefully in distilled water to remove any sucrose that may have spilled and carefully blot.
- Record the mass of each baggie.
- Fill six 250 mL beakers two-thirds full with distilled water and place a bag in each of them. Make sure that you record which baggie is which.
- Let the bag sit for 20-30 minutes. (While this is running, you may want to begin exercise 3.)
- After 20-30 minutes, remove the baggies from the water, and carefully blot dry.

Predict what you think will happen during the experiment. (Think about which bags will lose water and which will gain water.)

- Measure the mass of each baggie and record.
- To calculate: percent change in mass = $(\text{final mass} - \text{initial mass}) / \text{initial mass}$. Then multiply answer by 100.
- Gather the data from the other groups in the class and find the class average for each baggie.

Contents in Bag	Initial Mass	Final Mass	Mass Difference	% Change in Mass	Average
Distilled Water					
0.2 M					
0.4 M					
0.6 M					
0.8 M					
1.0 M					

- Graph the results for both your **individual data** and **class average** on a graph. The independent variable is on the X axis, and the dependent variable is on the Y axis.

Ap Biology Diffusion And Osmosis Lab College Board

Clarence E. Rudat



Ap Biology Diffusion And Osmosis Lab College Board:

America's Lab Report National Research Council, Division of Behavioral and Social Sciences and Education, Center for Education, Board on Science Education, Committee on High School Laboratories: Role and Vision, 2006-01-20 Laboratory experiences as a part of most U S high school science curricula have been taken for granted for decades but they have rarely been carefully examined What do they contribute to science learning What can they contribute to science learning What is the current status of labs in our nation s high schools as a context for learning science This book looks at a range of questions about how laboratory experiences fit into U S high schools What is effective laboratory teaching What does research tell us about learning in high school science labs How should student learning in laboratory experiences be assessed Do all student have access to laboratory experiences What changes need to be made to improve laboratory experiences for high school students How can school organization contribute to effective laboratory teaching With increased attention to the U S education system and student outcomes no part of the high school curriculum should escape scrutiny This timely book investigates factors that influence a high school laboratory experience looking closely at what currently takes place and what the goals of those experiences are and should be Science educators school administrators policy makers and parents will all benefit from a better understanding of the need for laboratory experiences to be an integral part of the science curriculum and how that can be accomplished

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Osmosis and Diffusion Doris R. Helms,Carl W. Helms,Robert J. Kosinski,John C. Cummings,1997-12-15

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