

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

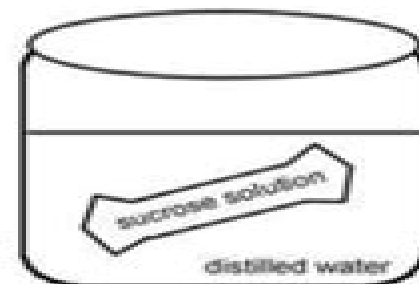
EXERCISE 1

- 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
0.2 M sucrose

0.4 M sucrose
0.6 M sucrose

0.8 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 and record.
- 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.

PREDICTION: 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 = (final mass - initial mass) / 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	Class Average
Distilled Water					

Biology Osmosis And Diffusion Lab Teacher Guide

G Thomas



Biology Osmosis And Diffusion Lab Teacher Guide:

Resources for Teaching Middle School Science Smithsonian Institution, National Academy of Engineering, National Science Resources Center of the National Academy of Sciences, Institute of Medicine, 1998-04-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them *Resources for Teaching Middle School Science* developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of *Resources for Teaching Elementary School Science* the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind *Resources for Teaching Middle School Science* will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents *Biology*, 1999 [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 **The American Biology Teacher**,2007-08 *Resources in Education* ,1996 Choosing and Using Digital Games in the Classroom Katrin Becker,2016-09-29 This book presents an in depth overview of the uses of digital games in education from K 12 up through post secondary Beginning with a look at the history of games in education and the context for digital games this book guides readers through various methods of serious game implementation including the Magic Bullet Model which focuses on the player s point of view of the game experience The book also includes methods of measuring the effects of games in education and guidance on creating digital game based learning lesson plans Teaching Better Bradley A. Ermeling,Genevieve Graff-Ermeling,2016-03-03 Discover the power of collaborative inquiry This unique visually stunning resource is packed with details to ignite and sustain the collaborative improvement of teaching and learning Includes US and international case studies powerful metaphors application exercises a leader s guide a companion website digital templates and more Learn what lesson study and collaborative inquiry can and should look like Find the guidance you need to lead and support schoolwide inquiry based improvement A true inspiration for educators who want to improve both their own craft and the methods of the profession Jim Stigler James Hiebert Authors of The Teaching Gap Prep Guide Biology Campbell,1994-02 Biological Investigations Lab Manual Warren Dolphin,David Vleck,Linda Westgate,James Colbert,2010-01-27 The lead author of eight successful previous editions has brought together a team that combined has well over 60 years experience in offering beginning biology labs to several thousand students each year at Iowa State University Their experience and diverse backgrounds ensure that this extensively revised edition will meet the needs of a new generation of students Designed to be used with all majors level general biology textbooks the included labs are investigative using both discovery and hypothesis based science methods Students experimentally investigate topics observe structure use critical thinking skills to predict and test ideas and engage in hands on learning Students are often asked what evidence do you have that in order to encourage them to think for themselves By emphasizing investigative quantitative and comparative approaches to the topics the authors continually emphasize how the biological sciences are integrative yet unique An instructor s manual available through

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