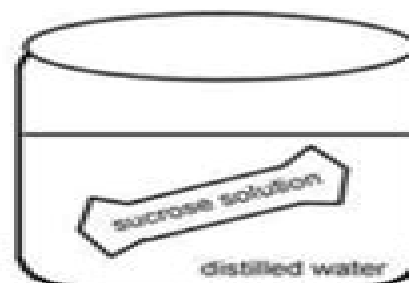


AP BIOLOGY LAB: DIFFUSION AND OSMOSIS

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

1. Obtain 6 strips of dialysis tubing and tie an knot in one end of each.
2. 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

3. Remove most of the air from the bag (but leave a little bit of space) and tie the baggie.
4. Rinse the baggie carefully in distilled water to remove any sucrose that may have spilled and carefully blot.
5. Record the mass of each baggie and record.
6. 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.
7. Let the bag sit for 20-30 minutes. (While this is running, you may want to begin exercise 3.)
8. 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.)

9. Measure the mass of each baggie and record.
10. To calculate: percent change in mass = (final mass - initial mass) / initial mass. Then multiply answer by 100.
11. 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

Roman Wölfel



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

Argument-driven Inquiry in Biology Victor Sampson,2014-04-01 Are you interested in using argument driven inquiry for high school lab instruction but just aren t sure how to do it You aren t alone This book will provide you with both the information and instructional materials you need to start using this method right away Argument Driven Inquiry in Biology is a one stop source of expertise advice and investigations The book is broken into two basic parts 1 An introduction to the stages of argument driven inquiry from question identification data analysis and argument development and evaluation to double blind peer review and report revision 2 A well organized series of 27 field tested labs that cover molecules and organisms ecosystems heredity and biological evolution The investigations are designed to be more authentic scientific experiences than traditional laboratory activities They give your students an opportunity to design their own methods develop models collect and analyze data generate arguments and critique claims and evidence Because the authors are veteran teachers they designed Argument Driven Inquiry in Biology to be easy to use and aligned with today s standards The labs include reproducible student pages and teacher notes The investigations will help your students learn the core ideas crosscutting concepts and scientific practices found in the Next Generation Science Standards In addition they offer ways for students to develop the disciplinary skills outlined in the Common Core State Standards Many of today s teachers like you want to find new ways to engage students in scientific practices and help students learn more from lab activities Argument Driven Inquiry in Biology does all of this even as it gives students the chance to practice reading writing speaking and using math in the context of science

CK-12 Biology Teacher's Edition CK-12 Foundation,2012-04-11 CK 12 Biology Teacher s Edition complements the CK 12 Biology Student Edition FlexBook **Prep Guide Biology** Campbell,1994-02 **Resources in Education** ,1996

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

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