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Exercise 9

DIFFUSION AND OSMOSIS: PASSIVE MOVEMENT OF MOLECULES IN BIOLOGICAL SYSTEMS

This exercise expands the definition of diffusion to include the concept of free energy. However, many students find this concept difficult to understand. They will need some help interpreting their results in terms of free energy rather than just concentration. Also important is the concept of a "model" in biological investigation. Specifically, the dialysis bag is used as a model of a cell.

If time permits, use this exercise to discuss aspects of experimentation such as hypotheses, quantification, sources of error, design of graphs, and individual versus class results.

SUGGESTED ELEMENTS FOR AN INTRODUCTORY LECTURE

- Heat causes molecules to move randomly and drives diffusion.
- Brownian movement is the random movements of small particles caused by collisions with other small particles.
- Diffusion is the net movement of molecules from an area of high free energy to an area of low free energy.
- Free energy is the energy available to do work.
- Osmosis is the diffusion of water across a differentially permeable membrane.
- A solvent is a fluid that dissolves substances. A solute is a substance dissolved in a solution.
- A hypotonic solution has a salt concentration lower than the concentration of a comparable solution.
- A hypertonic solution has a salt concentration higher than the concentration of a comparable solution.

Vodopich Edition 10 Lab Manual

Michael S. Roberts, Anne E. Kruchten



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Discovery-Based Learning in the Life Sciences Kathleen M. Susman, 2015-09-28 For nearly a decade scientists educators and policy makers have issued a call to college biology professors to transform undergraduate life sciences education As a gateway science for many undergraduate students biology courses are crucial to addressing many of the challenges we face such as climate change sustainable food supply and fresh water and emerging public health issues While canned laboratories and cook book approaches to college science education do teach students to operate equipment make accurate measurements and work well with numbers they do not teach students how to take a scientific approach to an area of interest about the natural world Science is more than just techniques measurements and facts science is critical thinking and interpretation which are essential to scientific research Discovery Based Learning in the Life Sciences presents a different way of organizing and developing biology teaching laboratories to promote both deep learning and understanding of core concepts while still teaching the creative process of science In eight chapters the text guides undergraduate instructors in creating their own discovery based experiments The first chapter introduces the text delving into the necessity of science education reform The chapters that follow address pedagogical goals and desired outcomes incorporating discovery based laboratory experiences realistic constraints on such lab experiments model scenarios and alternate ways to enhance student understanding The book concludes with a reflection on four imperatives in life science research climate food energy and health and how we can use these laboratory experiments to address them Discovery Based Learning in the Life Sciences is an invaluable guide for undergraduate instructors in the life sciences aiming to revamp their curriculum inspire their students and prepare them for careers as educated global citizens *Exploring Zoology: A Laboratory Guide, Third Edition* David G. Smith, Michael P. Schenk, 2021-01-01 Exploring Zoology A Laboratory Guide provides a comprehensive hands on introduction to the field of zoology Knowledge of the principal groups of animals is fundamental to understanding the central issues in biology This full color lab manual provides a diverse selection of exercises covering the anatomy physiology behavior and ecology of the major invertebrate and vertebrate lineages Great care has been taken to provide information in an engaging student friendly way The material has been written to be easily adapted for use with any introductory zoology textbook

Found in Translation - Genesis One J. Roland Kent, 2016-02-23 J R Kent has solved a 2 500 year old mystery that defies both religion and science Hidden in the thirty one verses of Genesis One is a message so powerful it could ultimately change the course of global events Our hi tech world is barely a century old and already life altering environmental terrorist political economic and health threats pose potentially dire consequences for our future However many of the ancient advanced civilizations such as the Egyptians the Greeks the Romans and the Mayans of Central America endured for thousands of years So what was their secret and how is it revealed in the Genesis verses Genesis One is an ancient creation account for the earth plants animals and humankind However when reading these verses they may seem bewildering and out

of the natural order The premise of this book illustrates in startling detail that this amazing story in fact perfectly correlates with the theories of modern science There are several reasons why this mystery has not been revealed until now First an ancient author wrote this account in the original Hebrew language but the actual evolutionary sequence of the Earth that he so accurately revealed has been lost in translation by the many biblical versions that followed Second the discoveries of modern science now put us at a point in time when this correlation has now been found in translation This revelation then begs two questions How was this knowledge possible in ancient times and who wrote it

Student Study Guide to Accompany Botany, Second Edition, Moore, Clark, Vodopich Rebecca McBride DiLiddo, Randy Moore, 1998 **Biology Laboratory Manual** Darrell S. Vodopich, Randy Moore, 1998-12 This laboratory manual is designed for an introductory majors biology course with a broad survey of basic laboratory techniques The experiments and procedures are simple safe easy to perform and especially appropriate for large classes Few experiments require a second class meeting to complete the procedure Each exercise includes many photographs traditional topics and experiments that help students learn about life Procedures within each exercise are numerous and discrete so that an exercise can be tailored to the needs of the students the style of the instructor and the facilities available

Subject Guide to Books in Print, 2001 □□□□□□ □□□ Jonathan B Losos, Kenneth A. Mason, Susan R. Singer, Peter H. Raven, George B. Johnson, Mc Graw Hill, 2014-08-19 1982 [Active Learning in College Science](#) Joel J. Mintzes, Emily M. Walter, 2020-02-23 This book explores evidence based practice in college science teaching It is grounded in disciplinary education research by practicing scientists who have chosen to take Wieman's 2014 challenge seriously and to investigate claims about the efficacy of alternative strategies in college science teaching In editing this book we have chosen to showcase outstanding cases of exemplary practice supported by solid evidence and to include practitioners who offer models of teaching and learning that meet the high standards of the scientific disciplines Our intention is to let these distinguished scientists speak for themselves and to offer authentic guidance to those who seek models of excellence Our primary audience consists of the thousands of dedicated faculty and graduate students who teach undergraduate science at community and technical colleges 4 year liberal arts institutions comprehensive regional campuses and flagship research universities In keeping with Wieman's challenge our primary focus has been on identifying classroom practices that encourage and support meaningful learning and conceptual understanding in the natural sciences The content is structured as follows after an Introduction based on Constructivist Learning Theory Section I the practices we explore are Eliciting Ideas and Encouraging Reflection Section II Using Clickers to Engage Students Section III Supporting Peer Interaction through Small Group Activities Section IV Restructuring Curriculum and Instruction Section V Rethinking the Physical Environment Section VI Enhancing Understanding with Technology Section VII and Assessing Understanding Section VIII The book's final section IX is devoted to Professional Issues facing college and university faculty who choose to adopt active learning in their courses The common feature underlying all of the strategies described in this book is their

emphasis on actively engaging students who seek to make sense of natural objects and events Many of the strategies we highlight emerge from a constructivist view of learning that has gained widespread acceptance in recent years In this view learners make sense of the world by forging connections between new ideas and those that are part of their existing knowledge base For most students that knowledge base is riddled with a host of na ve notions misconceptions and alternative conceptions they have acquired throughout their lives To a considerable extent the job of the teacher is to coax out these ideas to help students understand how their ideas differ from the scientifically accepted view to assist as students restructure and reconcile their newly acquired knowledge and to provide opportunities for students to evaluate what they have learned and apply it in novel circumstances Clearly this prescription demands far more than most college and university scientists have been prepared for Medical and Health Care Books and Serials in Print ,1986 **Receptor Biology** Michael S. Roberts, Anne E. Kruchten, 2016-03-07 This book is geared to every student in biology pharmacy and medicine who needs to become familiar with receptor mediated signaling The text starts with explaining some basics in membrane biochemistry hormone biology and the concept of receptor based signaling as the main form of communication between cells and of cells with the environment It goes on covering each receptor superfamily in detail including their structure and evolutionary context The last part focusses exclusively on examples where thorough knowledge of receptors is critical pharmaceutical research developmental biology neurobiology and evolutionary biology Richly illustrated the book is perfectly suited for all courses covering receptor based signaling regardless whether they are part of the biology medicine or pharmacology program

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