

Osmosis And Diffusion Lab Report

Kinetic energy, a root of energy stored in cells, causes molecules to hit into each other and move in new directions. Diffusion is the result of this contact. Diffusion is the random movement of molecules to an area of lower concentration from an area of higher concentration. Osmosis is a type of diffusion. This is the diffusion of water through a selectively permeable membrane from a region of higher water potential to a region of lower water likely. Water potential is the measure of free energy of water in a solution.

A living system also contains an active transport to make movement of particles like ions that move against their concentration gradient. The energy source ATP is used during this process to move the particles across the cell membrane. This experiment takes place to measure the diffusion of small molecules through dialysis tubing. This tubing acts as a selectively permeable membrane, allowing larger molecules to pass through, but slowly. Dialysis is the movement of a solute through a selectively permeable membrane.

When the two solutions on either sides of the membrane are equal and no net movement is detected, the solutions are isotonic. This means that the solutions have the same concentration of solutes. If two solutions differ in the concentration of solutes that each has, the one with more solute is hypotonic. The solution that has less solute is hypertonic Apparatus: Experiment 1: Diffusion 1. Elodea plant 2. Zipper plant 3. Hypotonic solution 4. Hypertonic solution 5. Light microscope Experiment 2: Osmosis 1. 4 slides 2. Potato Experiment 3: Ferrous 1. Ferrous Sulfate 2.

Osmosis Paper

Potassium Africanized 3. Slides 4. A Ruler Procedure-Data * We, as a group, needed two potato slices, water, and a salt. Was dropped into the tap water and the other slice into the salt. Potato slices to stand in the bowl for a minimum of 30 minutes. Nothing happened to both potato slices. * A potato slice * Allow the * At 0 minute * After 10 minutes, the potato in water (hypotonic) became puff up and firm. * The potato in NaCl got smaller and wet. * After 20 minutes, the results of both potato slices were the same as 10 minutes results. At 30 minutes the potato in hypotonic became rigid.

Diffusion Osmosis Lab Report

Arlene Hill



Diffusion Osmosis Lab Report:

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

Science Educator's Guide to Laboratory Assessment Rodney L. Doran, 2002 The book opens with an up to date discussion of assessment theory research and uses Then comes a wealth of sample assessment activities in biology chemistry physics and Earth science Keyed to the National Science Education Standards the activities include reproducible task sheets and scoring rubrics All are ideal for helping students reflect on their own learning during science lab

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Physiology Jay Marvin Templin,1989-06 This manual is designed for the student to use in the laboratory portion of an anatomy and physiology course It has a number of features that will help the student learn about the structure and function of the human body Pref

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