

AP® Biology Laboratory 1

Diffusion and Osmosis

Objectives

- Use dialysis tubing to model diffusion across the cell membrane
- Investigate the influence of solute concentration on osmosis
- Investigate the concept of water potential in relation to water movement into or out of plant cells

Background to Activities A and B

The cell membrane is a cell's interface with its surroundings. In one sense, this membrane must function as a barrier: it must keep together in one bundle the enzymes, DNA, and metabolic pathways that make life possible. The cell membrane must also function as a gateway: waste products must be discharged through it and essential materials (oxygen, water, etc.) must enter through it. A membrane that allows some molecules to pass through while blocking the passage of others is said to be **semipermeable**. Molecules pass through the cell membrane either through processes that require the cell to expend energy (**active transport**), or through processes driven by the kinetic (thermal) energy of molecules (**passive transport**).

In these lab activities, you will investigate the passage of materials through a semipermeable membrane by passive transport. The membrane you will use, dialysis tubing, is semipermeable because it has submicroscopic holes through it. Molecules are in constant random motion. By chance, a molecule's motion may move it toward the membrane (Figure 1). If it collides with the membrane wall, it rebounds. If its motion takes it toward a pore, it may either pass through the pore, or it may rebound, depending upon the size of the molecule relative to the diameter of the pore. Molecules that are small enough to pass through the pores can pass through in either direction. Notice that on one side of the membrane solute molecules have displaced some of the water molecules. Thus, there is a higher concentration of water molecules on the opposite side of the membrane. More water molecules are available to collide with the membrane on the side having the higher concentration of water. Thus, although water molecules will move in both directions across the membrane, more will move from the side having the higher concentration to the side having the lower concentration. The movement of molecules from areas of higher concentration to areas of lower concentration is called **diffusion**.

The diffusion of water molecules across a semipermeable membrane is termed **osmosis**. A process that depends upon random motion might seem inefficient, but so many water molecules are involved and they move so fast, that it is estimated that a red blood cell floating in blood plasma gains an amount of water equal to 125 times its own volume every second. It also loses the same amount of water each second, all by osmosis. This occurs because the concentration of solutes in the blood plasma is the same as the concentration of solutes in red blood cells. Solutions that have the same solute concentration are **isotonic**. If we took a sample of whole blood and added salt to the plasma, increasing its solute concentration, the plasma becomes **hypertonic** to the solution in the red blood cells, and the cells lose water and shrink. If we add water to the blood plasma, decreasing its solute concentration, the plasma becomes **hypotonic** to the solution in the red blood cells. The cells gain water, swell, and may even burst.

Ap Biology Laboratory 1 Diffusion Osmosis Answers

Princeton Review, Kim Magloire



Ap Biology Laboratory 1 Diffusion Osmosis Answers:

Cracking the AP Biology Exam Kim Magloire, Princeton Review (Firm), 2004 This updated series by Princeton Review helps students pass the challenging Advance Placement Test with targeted study for each exam of the series **Kaplan AP Biology 2016** Linda Brooke Stabler, Mark Metz, Allison Wilkes, 2015-08-04 The Advanced Placement exam preparation guide that delivers 75 years of proven Kaplan experience and features exclusive strategies practice and review to help students ace the NEW AP Biology exam Students spend the school year preparing for the AP Biology exam Now it's time to reap the rewards money saving college credit advanced placement or an admissions edge However achieving a top score on the AP Biology exam requires more than knowing the material students need to get comfortable with the test format itself prepare for pitfalls and arm themselves with foolproof strategies That's where the Kaplan plan has the clear advantage Kaplan's AP Biology 2016 has been updated for the NEW exam and contains many essential and unique features to improve test scores including 2 full length practice tests and a full length diagnostic test to identify target areas for score improvement Detailed answer explanations Tips and strategies for scoring higher from expert AP teachers and students who scored a perfect 5 on the exam End of chapter quizzes Targeted review of the most up to date content and key information organized by Big Idea that is specific to the revised AP Biology exam Kaplan's AP Biology 2016 provides students with everything they need to improve their scores guaranteed Kaplan's Higher Score guarantee provides security that no other test preparation guide on the market can match Kaplan has helped more than three million students to prepare for standardized tests We invest more than 45 million annually in research and support for our products We know that our test taking techniques and strategies work and our materials are completely up to date for the NEW AP Biology exam Kaplan's AP Biology 2016 is the must have preparation tool for every student looking to do better on the NEW AP Biology test **Cracking the AP Biology Exam** Princeton Review, Kim Magloire, 2010-09 Provides techniques for achieving high scores on the AP biology exam and includes two full length practice tests Cracking the AP Biology Exam, 2013 Edition Princeton Review, Kim Magloire, 2012-09-04 If you need to know it it's in this book Cracking the AP Biology Exam 2013 Edition includes 2 full length practice tests with detailed explanations A comprehensive biology test topic review covering everything from photosynthesis to genetics to evolution A thorough review of all 12 AP Biology labs and possible testing scenarios Review questions and key term lists in every chapter to help you practice Detailed guidance on how to write a topical cohesive point winning essay Updated strategies which reflect the AP test scoring change **CliffsAP Biology, 3rd Edition** Phillip E Pack, 2011-11-08 Your complete guide to a higher score on the AP Biology exam Included in book A review of the AP exam format and scoring proven strategies for answering multiple choice questions and hints for tackling the essay questions A list of 14 specific must know principles are covered Includes sample questions and answers for each subject Laboratory Review includes a focused review of all 12 AP laboratory exercises AP Biology Practice Tests features 2 full length practice tests that simulate the actual

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