

Cell Transport Review Worksheet

Complete the table by checking the correct column for each statement:

statement	Isotonic solution	Hypotonic solution	Hypertonic solution
Causes a cell to swell		x	
Doesn't change the shape of a cell	x		
Causes osmosis	x	x	x
Causes a cell to shrink			x

Match the term with its correct description:

- a. energy e. active transport
b. facilitated diffusion f. exocytosis
c. endocytosis g. carrier protein
d. passive transport h. channel protein

- H Transport protein that provides a tube-like opening in the plasma membrane through which particles can diffuse
A Is used during active transport but not passive transport
— Process by which a cell takes in material by forming a vacuole around it
— Particle movement from an area of higher concentration to an area of lower concentration
F Process by which a cell expels wastes from a vacuole
— A form of passive transport that uses transport proteins
E Particle movement from an area of lower concentration to an area of higher concentration

— Transport protein that changes shape when a particle binds with it

Match the term with its correct description:

- a. transport proteins e. osmosis
b. active transport f. endocytosis c. diffusion
g. exocytosis
d. passive transport h. equilibrium

- E The diffusion of water through a cell membrane
— The movement of substances through the cell membrane without the use of cellular energy
A Used to help substances enter or exit the cell membrane
— When energy is required to move materials through a cell membrane
H When the molecules of one substance are spread evenly throughout another substance to become balanced
— A vacuole membrane fuses (becomes a part of) the cell membrane and the contents are released
F The cell membrane forms around another substance, for example, how the amoeba gets its food
— When molecules move from areas of high concentration to areas of low concentration

Label the diagrams of cells using the following terms: diffusion, active transport, osmosis, equilibrium. The arrows show the direction of transport. You may use the terms more than once!

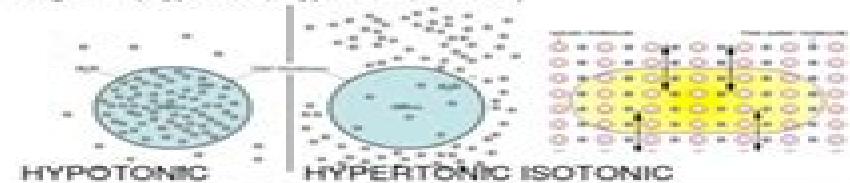


Osmosis Practice Activity

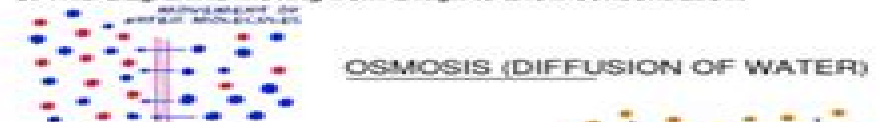
Osmosis is the diffusion of water from an area of high concentration to an area of low concentration. Only water moves in osmosis! The diagrams below show the concentration of water and salt inside the cell and the concentration of water and salt surrounding the cell. Complete the sentences below by comparing the concentration of the water inside the cell and the concentration outside the cell.

1. 5% NaCl 95% H₂O (inside cell) / 95% NaCl 5% H₂O (outside cell)
a. Water will flow **OUT OF THE CELL** (into the cell, out of the cell, in both directions).
b. The cell will **SHRINK** (shrink, burst, stay the same).
2. 80% NaCl 20% H₂O (inside cell) / 25% NaCl 75% H₂O (outside cell)
a. Water will flow **INTO THE CELL** (into the cell, out of the cell, in both directions).
b. The cell will **BURST** (shrink, burst, stay the same).

4. At which solution of concentration gradient is each cell diagram? (Hypotonic, Hypertonic, Isotonic)



5. This diagram is moving from a high to a low concentration:



6. Using a transport protein to move particles across the membrane:
FACILITATED DIFFUSION (HIGH TO LOW CONCENTRATION)



7. Describe the processes occurring in the following pictures:

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Harry E. Peery



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Table of Contents Cell Membrane And Transport Study Guide

1. Understanding the eBook Cell Membrane And Transport Study Guide
 - The Rise of Digital Reading Cell Membrane And Transport Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Cell Membrane And Transport Study Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Cell Membrane And Transport Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Cell Membrane And Transport Study Guide
 - Personalized Recommendations
 - Cell Membrane And Transport Study Guide User Reviews and Ratings
 - Cell Membrane And Transport Study Guide and Bestseller Lists

5. Accessing Cell Membrane And Transport Study Guide Free and Paid eBooks
 - Cell Membrane And Transport Study Guide Public Domain eBooks
 - Cell Membrane And Transport Study Guide eBook Subscription Services
 - Cell Membrane And Transport Study Guide Budget-Friendly Options
6. Navigating Cell Membrane And Transport Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Cell Membrane And Transport Study Guide Compatibility with Devices
 - Cell Membrane And Transport Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Cell Membrane And Transport Study Guide
 - Highlighting and Note-Taking Cell Membrane And Transport Study Guide
 - Interactive Elements Cell Membrane And Transport Study Guide
8. Staying Engaged with Cell Membrane And Transport Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Cell Membrane And Transport Study Guide
9. Balancing eBooks and Physical Books Cell Membrane And Transport Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Cell Membrane And Transport Study Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Cell Membrane And Transport Study Guide
 - Setting Reading Goals Cell Membrane And Transport Study Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Cell Membrane And Transport Study Guide
 - Fact-Checking eBook Content of Cell Membrane And Transport Study Guide
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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