

# 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		<input checked="" type="checkbox"/>	
Doesn't change the shape of a cell	<input checked="" type="checkbox"/>		
Causes osmosis	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Causes a cell to shrink			<input checked="" type="checkbox"/>

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
- I Process by which a cell takes in material by forming a vacuole around it
- M 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
- D 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
- G 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
- H When energy is required to move materials through a cell membrane
- I When the molecules of one substance are spread evenly throughout another substance to become balanced
- F A vacuole membrane fuses (becomes a part of) the cell membrane and the contents are released
- B The cell membrane forms around another substance, for example, how the amoeba gets its food
- M 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

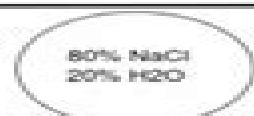
Osmosis is the diffusion of water from an area of high concentration to an area of low concentration. Only water moves in osmosis! The diagrams below show the concentration of water and salt inside the cell and the concentration of water and salt surrounding the cell. Complete the sentences below by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



95% NaCl  
5% H2O

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).



25% NaCl  
75% H2O

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:



OSMOSIS (DIFFUSION OF WATER)



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:

# Cell Membrane And Transport Study Guide

**Harry E. Peery**

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**Study Guide, Student Edition, for Use with Glencoe Life Science** McGraw Hill, 1998-05

**Study Guide and Partial Solutions Manual, Fundamentals of General, Organic, and Biological Chemistry** Susan McMurry, 1996 This internationally acclaimed detective series is just the thing for lovers of those Number One Ladies looking for a darker, more realistic view of Botswana. Sue Baker Publishing News.

**Study Guide and Solutions Manual, Fundamentals of General, Organic, and Biological Chemistry, Third Edition** John McMurry, Susan McMurry, 1999 Provides worked out solutions to text problems along with chapter by chapter outlines and a variety of self tests at the end of each chapter.

**Study Guide to Accompany Biology, Third Edition, by Arms & Camp** Virginia Fry, 1987

**Study Guide to Accompany Ronald M. Atlas' Microbiology** Harry E. Peery, 1984

**Student Study Guide for Biology [by] Campbell/Reece/Mitchell** Martha R. Taylor, 1999

**Student Study Guide and Solutions Manual to Accompany General, Organic, and Biochemistry** Katherine J. Denniston, Denniston, Katherine, 2006

**Study Guide for Black and Matassarin-Jacobs Medical-surgical Nursing** Elizabeth Ann Coleman, Janet E. Lord, Joyce M. Black, Sue Wyatt Huskey, Esther Matassarin-Jacobs, 1997 Consumable workbook. Includes a diskette with additional NCLEX style review questions. Previous edition c1993. Softcover. Three hole punched with perforated pages.

**Softcover Study Guide, Biology of Microorganisms, Fifth Edition, Thomas D. Brock & Michael T. Madigan** Allan Konopka, Thomas D. Brock, 1988

**Study Guide [for]** Charles Seiger, 2000

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