

Chapter 8

Cellular Transport and the Cell Cycle

Reinforcement and Study Guide

Section 8.1 Cellular Transport

In your textbook, read about osmosis: diffusion of water.

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

Statement	Isotonic Solution	Hypotonic Solution	Hypertonic Solution
1. Causes a cell to swell			
2. Doesn't change the shape of a cell			
3. Causes osmosis			
4. Causes a cell to shrink			

In your textbook, read about passive transport and active transport.

For each item in Column A, write the letter of the matching item in Column B.

Column A

- _____ 5. Transport protein that provides a tubelike opening in the plasma membrane through which particles can diffuse
- _____ 6. Is used during active transport but not passive transport
- _____ 7. Process by which a cell takes in material by forming a vacuole around it
- _____ 8. Particle movement from an area of higher concentration to an area of lower concentration
- _____ 9. Process by which a cell expels wastes from a vacuole
- _____ 10. A form of passive transport that uses transport proteins
- _____ 11. Particle movement from an area of lower concentration to an area of higher concentration
- _____ 12. Transport protein that changes shape when a particle binds with it

Column B

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