

Cell Structure and Function ▪ *Guided Reading and Study*

The Cell in Its Environment

This section tells how things move into and out of cells.

Use Target Reading Skills

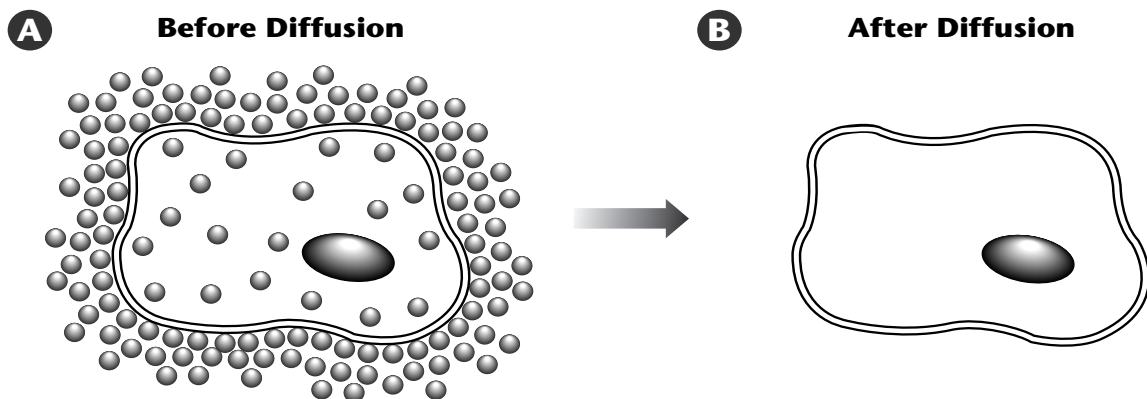
After you read the section, reread the paragraphs that contain definitions of Key Terms. Use all the information you have learned to write a definition of each Key Term in your own words.

Introduction

1. The cell membrane is _____, which means that some substances can pass through it while others cannot.

Diffusion

2. List three ways that substances can move into and out of a cell.
 - a. _____
 - b. _____
 - c. _____
3. In diffusion, molecules move from an area of _____ concentration to an area of _____ concentration.
4. Draw molecules on Part B of the diagram below to show how the molecules are distributed inside and outside the cell after diffusion has occurred.



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Osmosis

5. In _____, water molecules diffuse through a selectively permeable membrane.

Active Transport

6. Two ways of moving things into and out of cells that do NOT need energy are _____ and _____.
Moving materials through a cell membrane without using energy is called _____ transport.

7. How does active transport differ from passive transport?

8. List two ways that the cell moves things by active transport.

a. _____
b. _____

9. Is the following sentence true or false? As a cell gets larger, it takes longer for a molecule that has entered the cell to reach the middle of the cell.

