

Cell Structure and Function ▪ *Reading/Notetaking Guide*

The Cell in Its Environment (pp. 102–107)

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

Use Target Reading Skills

As you read, write the main idea—the biggest or most important idea—in the graphic organizer below. Then write three supporting details that further explain the main idea.

Main Idea		
Detail	Detail	Detail
a.	b.	c.

Introduction (pp. 102–103)

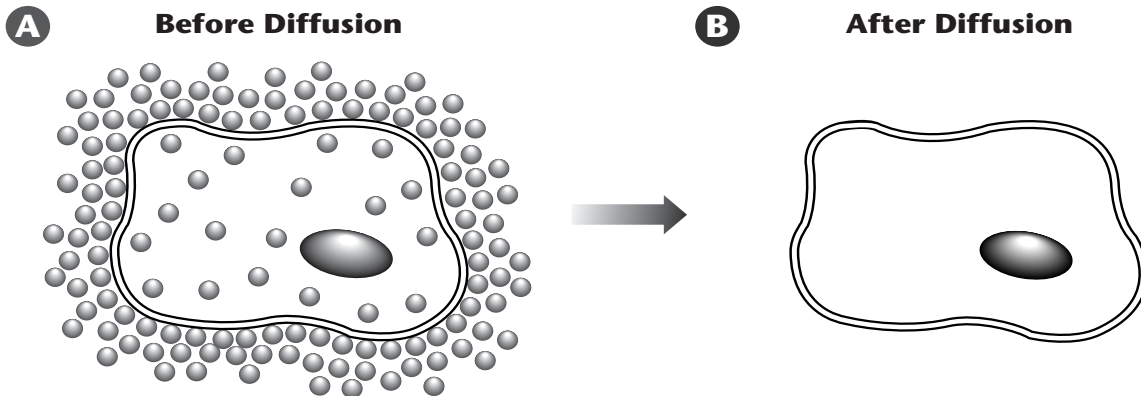
1. The cell membrane is _____, which means that some substances can pass through it while others cannot.

Diffusion (pp. 103–104)

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.

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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.



Osmosis (pp. 104–105)

5. What is osmosis?

6. Why do many cellular processes depend on osmosis?

Active Transport (pp. 106–107)

7. 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.

8. How does active transport differ from passive transport?

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

a. _____

b. _____

10. 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.
