

CHAPTER 5 ACTIVE READING WORKSHEETS

HOMEOSTASIS AND CELL TRANSPORT

Section 5-1: Passive Transport

Read the passage below, which covers topics from your textbook.
Answer the questions that follow.

One type of passive transport is called **facilitated diffusion**. This process is used for molecules that cannot readily diffuse through cell membranes, even when there is a concentration gradient across the membrane. Such molecules may not be soluble in lipids, or they may be too large to pass through the pores in the membrane. In facilitated diffusion, the movement of these kinds of molecules across the cell membrane is assisted by specific proteins in the membrane. These proteins are known as **carrier proteins**.

In facilitated diffusion, a carrier protein binds to a specific molecule it transports. As soon as the molecule binds to the carrier protein, the carrier protein changes shape. This altered shape may shield the molecule from the hydrophobic interior of the lipid bilayer. Once shielded, the molecule can be transported across the cell membrane. On the other side of the membrane, the molecule is released from the carrier protein, which then returns to its original shape.

Read each question and write your answer in the space provided.

SKILL: Sequencing Information

1. Order the statements to show the steps of facilitated diffusion. Write "1" on the line in front of the statement that describes what happens first. Write "2" on the line in front of the statement that describes what happens next, and so on.
 - a. _____ The molecule is released from the carrier protein.
 - b. _____ The carrier protein changes shape.
 - c. _____ The molecule is transported across the cell membrane.
 - d. _____ The molecule binds to a carrier protein.
 - e. _____ The carrier protein returns to its original shape.
 - f. _____ The molecule is shielded from the hydrophobic interior of the lipid bilayer.

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Answers

J Ma



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