

CHAPTER 5 ACTIVE READING WORKSHEETS

HOMEOSTASIS AND TRANSPORT

Section 5-2: Active Transport

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

Endocytosis is the process by which cells ingest external fluid, macromolecules, and large particles, including other cells. These external materials are enclosed by a portion of the cell's membrane, which folds into itself and forms a pouch. The pouch then pinches off from the cell membrane and becomes a membrane-bound organelle called a **vesicle**. Some of the vesicles fuse with lysosomes, and their contents are digested by lysosomal enzymes. Other vesicles that form during endocytosis fuse with other membrane-bound organelles.

Exocytosis is essentially the reverse of endocytosis. During exocytosis, vesicles in the cytoplasm fuse with the cell membrane, releasing their contents into the cell's external environment. Cells can use exocytosis to release large molecules such as proteins, waste products, or toxins that would damage the cell if they were released within the cytosol. Proteins are made on ribosomes and packaged into vesicles by the Golgi apparatus. The vesicles then move to the cell membrane and fuse with it, delivering the proteins outside the cell.

Fill in the blank to complete each sentence.

Skills Completing Sentences

1. Endocytosis is the process by which cells ingest large particles, external fluid, and _____.
2. During exocytosis, substances are released from the cell through a _____.
3. Through exocytosis, a cell releases large molecules such as _____.

Circle the letter of the phrase that best completes the statement.

4. Endocytosis and exocytosis are similar in that both processes involve the
 - a. ingestion of substances.
 - b. release of substances from a cell.
 - c. movement of large particles across a cell membrane.
 - d. Both (a) and (b).

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