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6. Most active transport proteins use energy from the breakdown of ______.

CHAPTER 3 Cell Structure and Function

STUDY GUIDE, CONTINUED

MAIN IDEA: Endocytosis and exocytosis transport materials across the membrane in vesicles.

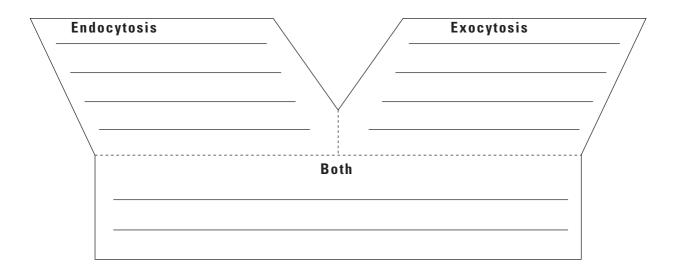
7. A cell may transport a substance in ______ if the substance is

too large to cross the membrane.

8. During endocytosis, the vesicle membrane fuses with a lysosome, and the membrane

and its contents are broken down by _____.

Complete the Y diagram below to compare and contrast the processes of endocytosis and exocytosis. Under the heading "endocytosis," list the characteristics of endocytosis. Under the heading "exocytosis," list the characteristics of exocytosis. At the bottom of the Y, write the characteristics that both processes have in common. Then lightly cross out those characteristics at the top of the Y.



Vocabulary Check

- 9. What term means "cell eating" and describes a type of endocytosis?
- **10.** The prefix *exo-* means "out of," and the prefix *endo-* means "taking in." How do these meanings relate to the meaning of exocytosis and endocytosis?

11. What process drives molecules across a membrane against a concentration gradient?