Name _____ Date _____ Period _____

Passive Transport

MAIN IDEA: Diffusion and osmosis are types of passive transport.

1. What is a concentration gradient?

_____

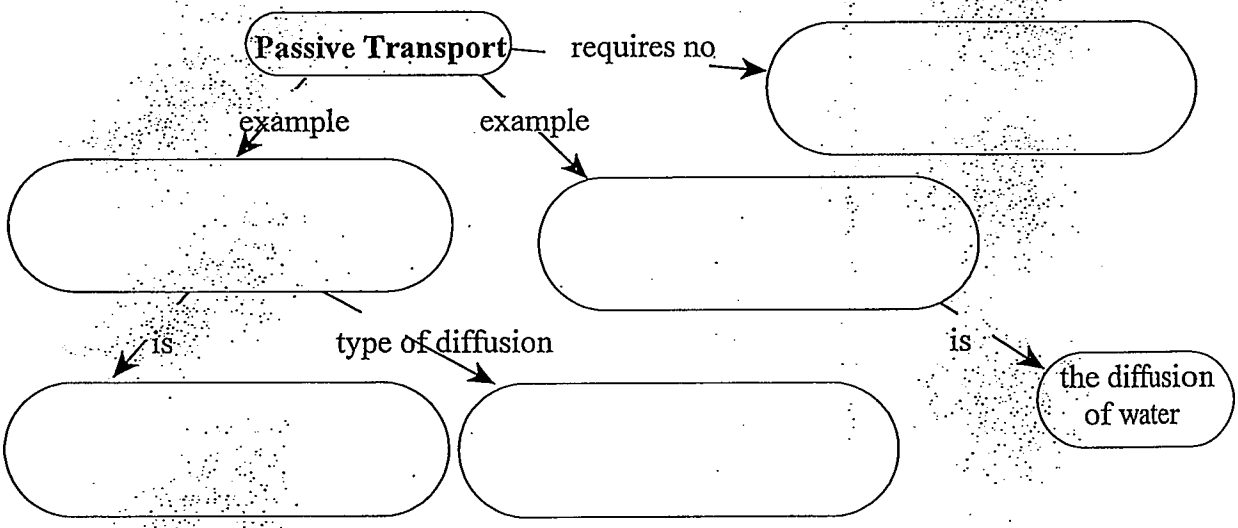
_____

2. What does it mean for a molecule to diffuse down a concentration gradient?

_____

_____

3. Complete the concept map below about passive transport using the following words or phrases: osmosis, energy, facilitated diffusion, the movement of molecules from high to low concentration, diffusion



4. How does facilitated diffusion differ from simple diffusion?

_____

_____

5. What will happen to a houseplant if you water it with salt water (a hypertonic solution)?

_____

_____

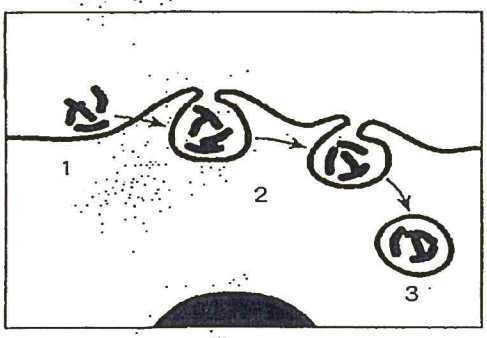
Name _____ Date _____ Period _____

Active Transport

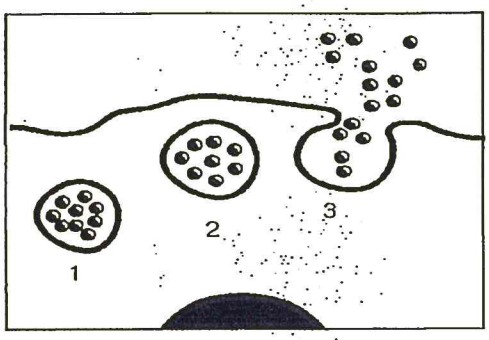
1. How is active transport different than simple diffusion and facilitated diffusion?

2. 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?

3.



A



B

What process is shown in Figure A? _____

What process is shown in Figure B? _____

4. Do you think that endocytosis and exocytosis can occur within the same cell? Explain your reasoning.

5. Predict: If the transport proteins that carry amino acids into a cell stopped working, how might the process affect the cell?

6. Infer: What might you conclude about the membrane structure of the final vesicle formed during exocytosis and the cell membrane?