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

   ![Concept Map](image)

   - Passive Transport
   - requires no example
   - type of diffusion example
   - is example
   - is the diffusion of water

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)?
Active Transport

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

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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?

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3. 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.

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

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