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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 blood cell if you place it with salt water (a hypertonic solution)?

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Type of Movement	Energy Required? Passive or Active Transport?	What type of particle is moved?	What part of the membrane is the particle moving through?	How does it work? Explain
Diffusion	No energy needed. Passive Transport	O ₂ CO ₂	Lipid bi-layer	Particles diffuse through the membrane until the concentrations in/out of the cell are balanced (equilibrium).
Osmosis	No energy needed. Passive Transport	H ₂ O	Lipid bi-layer	Water moves through the membrane until concentrations in/out of the cell are at equilibrium.
Facilitated Diffusion	No energy needed. Passive transport	Glucose, sodium, potassium, calcium	Protein channel	Particles move from high to low concentrations through the protein channel.
Molecular Transport	Energy needed. Active transport	Sodium, calcium, potassium	Protein pump	The cell uses energy to pump the particles against the concentration (from low to high).
Endocytosis	Energy needed. Active transport	Large molecules or clumps of material such as glucose.	The whole membrane.	The particle(s) are too big to fit through the proteins or lipids so the cell membrane folds over the particles and then pinches off.
Exocytosis	Energy needed. Active transport	Large molecules, clumps of material such as waste or proteins.	The whole membrane	The membrane folds and pinches together to allow the particles to escape.

Transport REVIEW
Answer the following questions on your own paper.

1. Draw and label the parts of a cell membrane include phospholipids, proteins, and cholesterol.
2. Define: active transport, passive transport, simple diffusion, osmosis, facilitated diffusion, endocytosis, exocytosis, protein pump, hypertonic, isotonic, hypotonic
3. For the various types of transport from #2, give an example of a substance that uses each type of transport to get through the membrane.
4. Explain **diffusion** with a picture or diagram.
5. Explain **facilitated diffusion** with a picture or diagram.
6. Write or draw a real-life example of **diffusion**.
7. What is **osmosis**?
8. Draw a Venn diagram to compare/contrast **diffusion** and **osmosis**.
9. In general, describe and draw what would happen to a cell if placed in the following environments.
 - a. **Isotonic** solution:
 - b. **Hypotonic** solution:
 - c. **Hypertonic** solution:
10. Draw an arrow in the direction of **osmosis** for each of the conditions. Assume the membrane is **not permeable** to sucrose.
11. Intravenous solutions (IV's) must be prepared so that they are **isotonic** to red blood cells. A solution of 99.1% water and 0.9% salt is **isotonic** to red blood cells.
 - a. Explain what will happen to a red blood cell placed in a solution of 99.3% water and 0.7% salt.
 - b. Explain what would happen to a red blood cell placed in a solution of 90% water and 10% salt.
12. Draw and describe a plant cell in a **hypotonic** solution. How will a plant cell respond differently than an animal cell and why?
13. Draw and describe a plant cell experiencing plasmolysis. What type of a solution (hypo-, hyper-, or isotonic) would cause **plasmolysis**?
14. What would happen to the **mass** of a cell in a hypertonic solution? A hypotonic solution? An isotonic solution? Why?

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