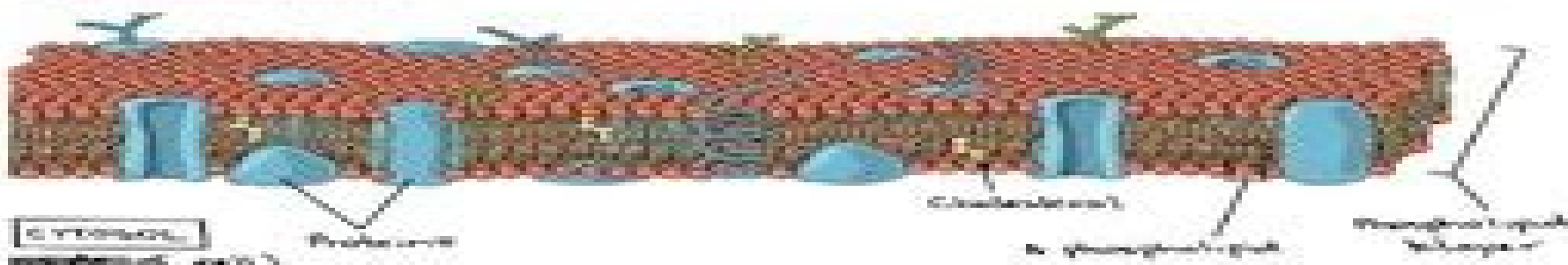


Diffusion and Active Transport Study Guide

(Import Vocabulary is Underlined)

Cell Membrane

Movement of molecules into and out of a cell occurs across the cell membrane (aka plasma membrane). The cell membrane is selectively permeable, meaning only certain materials can enter and exit, often based on size. The membrane is made of a mostly phospholipid bilayer (two layers of lipids). It has small openings like a screen or a window, and materials that are too large cannot pass through, however the membrane has protein channels that allow certain larger molecules to enter.

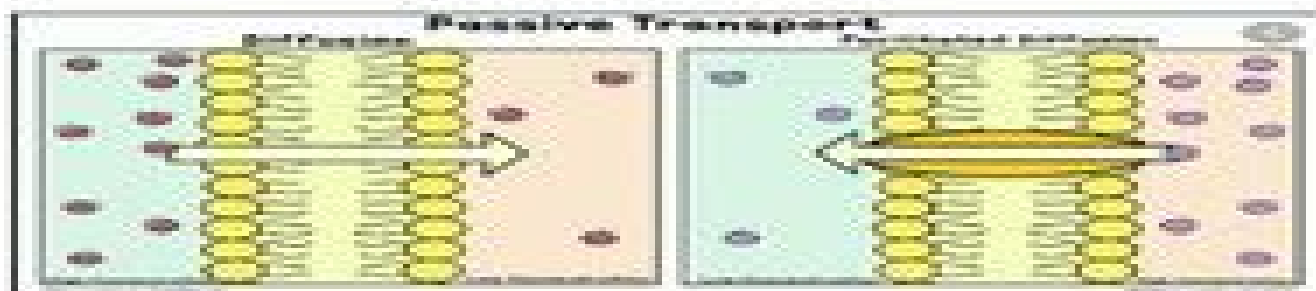


Diffusion (aka Passive Transport)

Molecules want to balance out, therefore diffusion refers to the movement of molecules from high amounts to low amounts, until an equilibrium (even amount) is reached. Once there is an equal number of molecules on both sides, diffusion will end.

Ex: If one person has 3 slices of pizza and the other person has 1, the person with 3 must give one to the person with 1, for each of them to have an equal amount, in this case 2 each.

This is what is happening with diffusion, in a cell, if there is a higher concentration (amount) outside the cell than inside, molecules will enter the cell to balance out. In the image below, molecules from the more crowded side are moving to the less crowded side to reach an equilibrium (even amount).



Osmosis and Salt Water

Diffusion of water occurs so frequently that it is given a special name called osmosis. Like all diffusion, water moves from high to low crowdedness to balance out. Osmosis is

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A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the Speedy Publishing text.

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