

Chapter 3 Section 2

Moving Cellular Material

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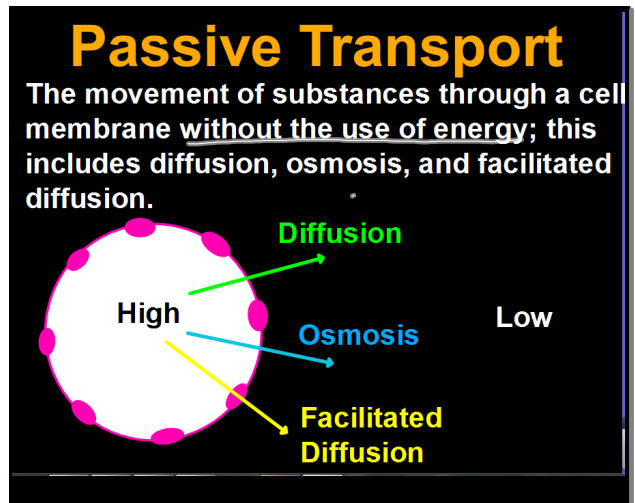
Chapter 3 Section 2 "Moving Cellular Materials"

- Cells have a selectively permeable membrane that regulates what goes into or out of the cell.
- Passive transport – the movement of substances through a cell membrane WITHOUT the input of energy.
 - Diffusion – when molecules move away from areas where there are more of them into areas where there are LESS of them; stops when the molecules of on substance are spread evenly throughout another substance and equilibrium occurs.
 - Osmosis - the diffusion of water through a cell membrane.
 - Facilitated Diffusion – transport proteins, move substances through a cell membrane.

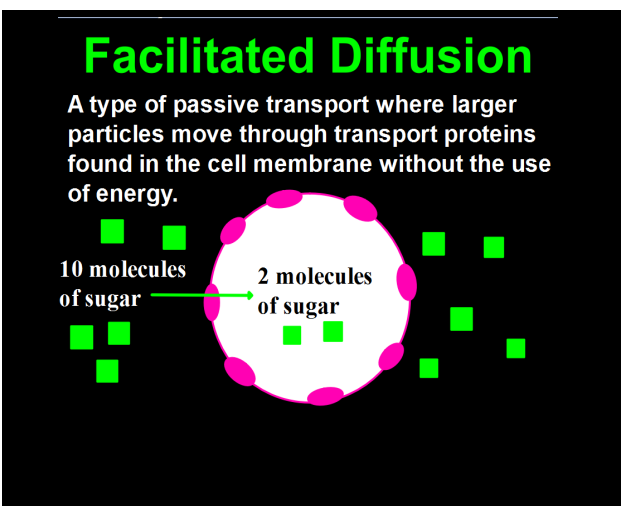
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- Active transport requires energy to move substances through a cell membrane.
- Endocytosis and Exocytosis
 - Endocytosis – the process in which a substance is taken into a cell membrane by surrounding it with the cell membrane forming a sphere called a vesicle. (entering cell)
 - Exocytosis – the process in which the membrane of the vesicle fuses with the cell's membrane and the vesicle's contents are released from the cell. (exiting cell)

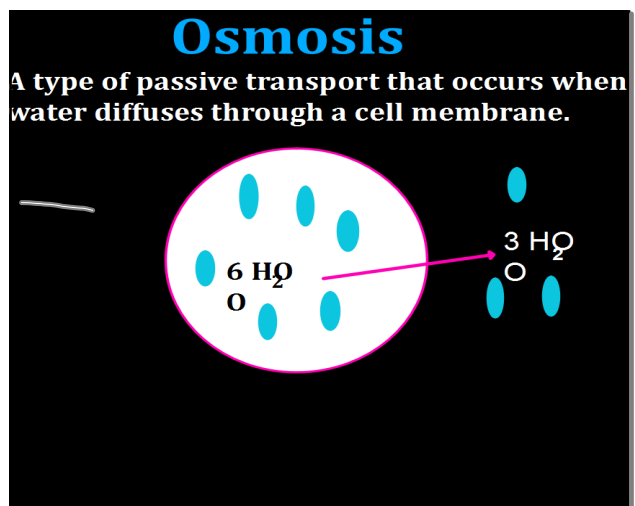
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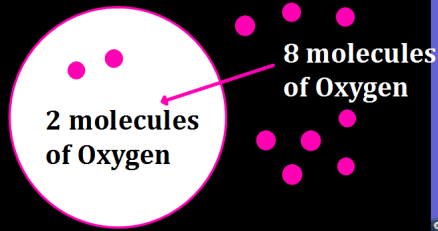
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Diffusion

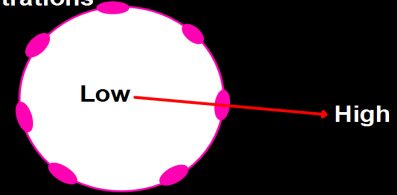
A type of passive transport in which molecules move from areas where there are more of them to areas where there are less of them.



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Active Transport

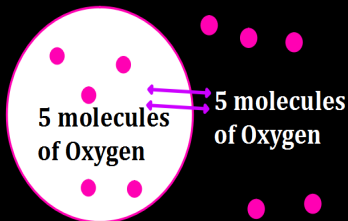
This is an energy-requiring process in which transport proteins bind with particles and move them through a cell membrane. They move from areas of low to high concentrations.



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Equilibrium

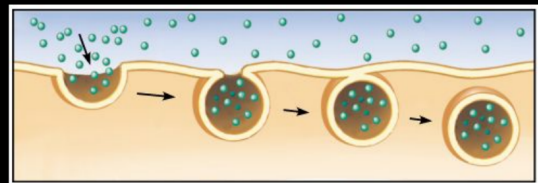
Occurs when molecules of one substance are spread evenly throughout another substance.



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Endocytosis

The process by which a cell takes in a large substance by surrounding it with the cell membrane.

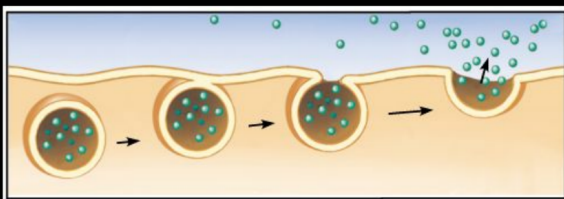


Cell

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Exocytosis

The process by which vesicles release their contents outside the cell.



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