

*Review solutions...*

**Solute**: substance that is dissolved in a solution



**SOLUTE**



**SOLVENT**



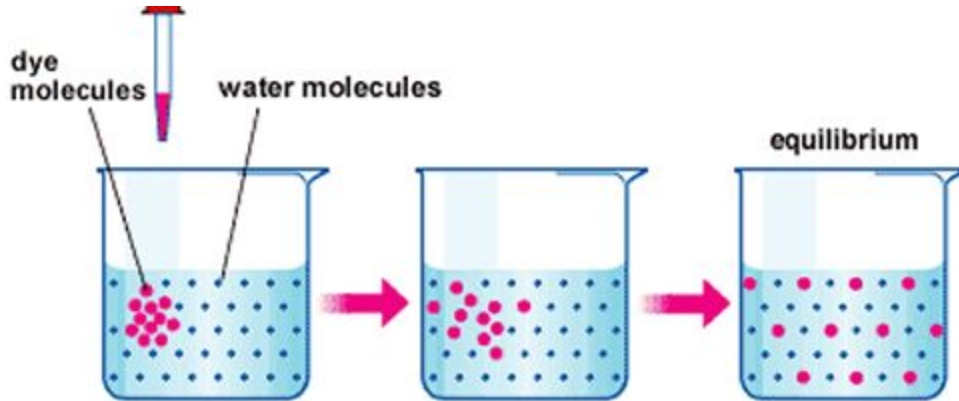
**SOLUTION**

**Solvent**: substance in which the solute is dissolved

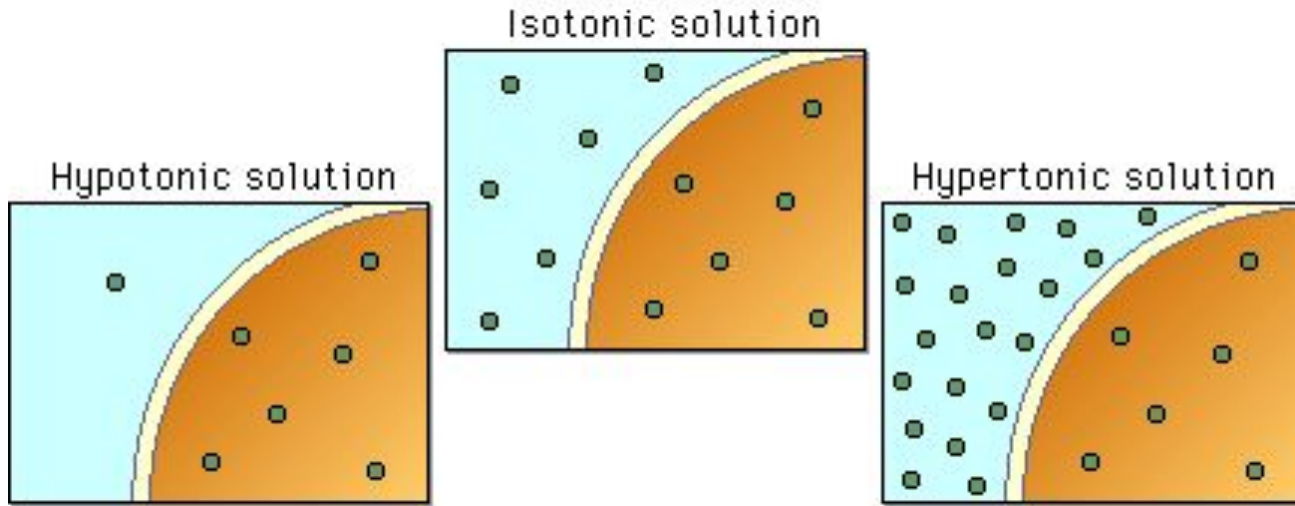
**Concentration**: the mass of the solute in a given volume (mass/volume)



**Diffusion**: when materials move from areas where they are *more* concentrated to areas where they are *less* concentrated.



**Equilibrium**: the state when a concentration has equalized



**Isotonic solution:** two solutions have the same solute concentration

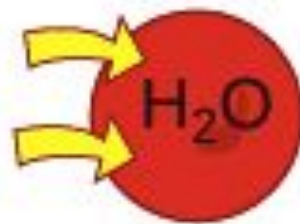
**Hypertonic solution:** a solution has a higher solute concentration

**Hypotonic solution:** a solution has a lower solute concentration

Hypertonic  
solution

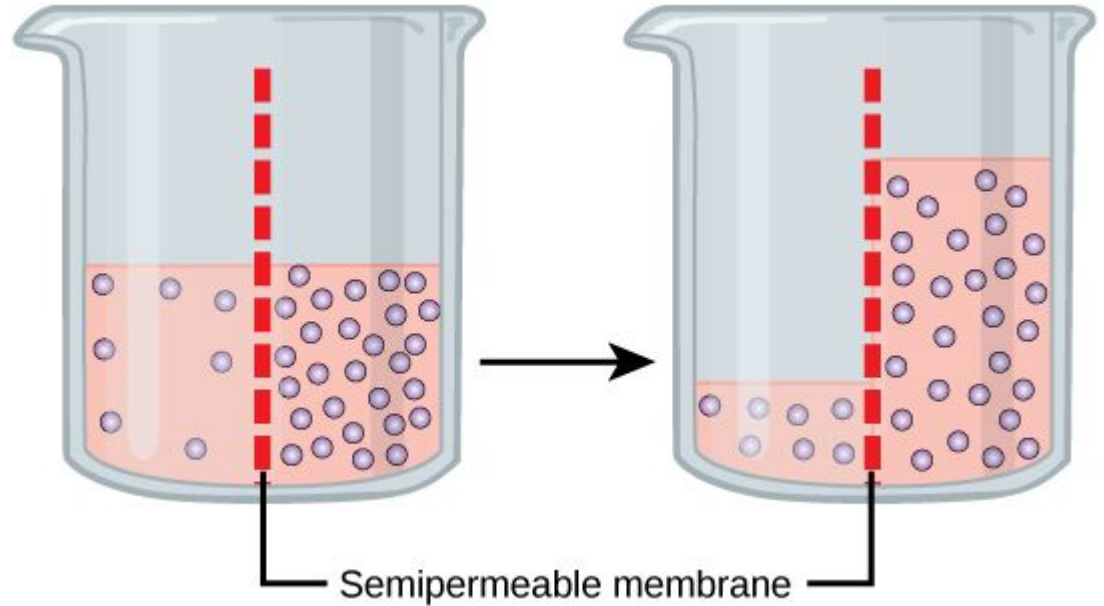
Isotonic  
solution

Hypotonic  
solution



Most membranes are selectively permeable, or *semipermeable* (Some substances can pass through, while other cannot.)

**Osmosis**: the diffusion of water across a membrane, to areas of less concentration.



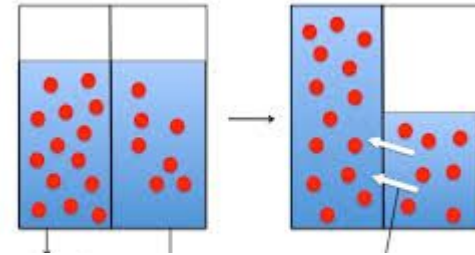
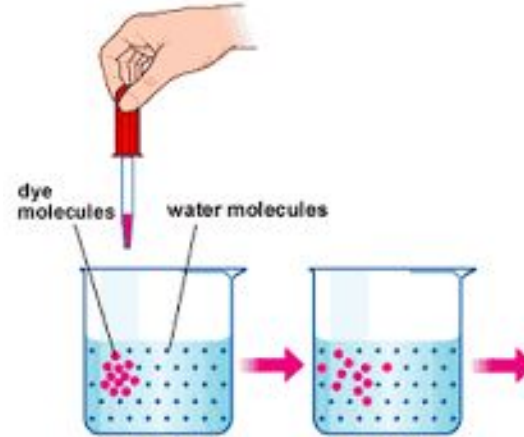
# LET'S REVIEW

1. Material that is dissolved into a solution is called the \_\_\_\_\_.
2. The substance that the solute is dissolved in is called the \_\_\_\_\_.
3. Solutes move through cell membranes by the process of \_\_\_\_\_.
4. Water moves from areas of high concentration to areas of low concentration in a process called \_\_\_\_\_.

**SOLUTE**

**SOLVENT**

**DIFFUSION**



**OSMOSIS**