\*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_: diffusion of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ through a selectively permeable membrane

\*Type of facilitated diffusion

\*Water moves from \_\_\_\_\_\_\_\_\_\_\_ to \_\_\_\_\_\_\_\_\_\_\_ concentrations through protein channels called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**\*Facilitated Diffusion:** diffusion of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ particles through transport \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ found in the membrane.

\*Transport proteins are \_\_\_\_\_\_\_\_\_\_\_\_\_; they allow only certain molecules to cross the membrane

\*Transports \_\_\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_\_\_ molecules

\*Ex:

Two Types of Proteins

1. Carrier proteins: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ to move specific molecules in or out of the cell

 Ex:

2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ proteins: have a tunnel that allows \_\_\_\_\_\_\_\_\_\_\_\_\_ molecules to move in or out of the cell



**In the diagram below, label the side with the high concentration (HIGH) and the low concentration (LOW). Then draw an arrow (🡪) showing the direction the solution will move through the membrane.**

Osmosis

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**In the diagram below, label the side with the high concentration (HIGH) and the low concentration (LOW). Then draw an arrow (🡪) showing the direction the solution will move through the membrane.**



Facilitated Diffusion

**\*Diffusion**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ movement of particles from an area of \_\_\_\_\_\_\_\_\_ concentration to an area of \_\_\_\_\_\_\_\_\_\_\_ concentration

\*Once the concentration of the substance on both sides of the cell membrane is the same, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is reached.

\*Even when equilibrium is reached molecules continue to move in both directions, but there is \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

\*Molecules that can move through the membrane are \_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_, like \_\_\_\_\_\_ and \_\_\_\_\_\_\_.



**In the diagrams below, label the side with the high concentration (HIGH) and the low concentration (LOW). Then draw an arrow (🡪) showing the direction the solution will move through the membrane.**

Diffusion



* Cell uses \_\_\_\_\_\_\_\_\_\_ energy
* Molecules move \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Molecules move from areas of \_\_\_\_\_\_\_\_\_\_ concentration to areas of \_\_\_\_\_\_\_\_\_\_\_concentration
* **HIGH** 🡪 **LOW (Particles move down or with the concentration gradient)**

Types of Passive Transport