Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class: \_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



Think-pair-share:

List 2 things you think should be able to move into a cell and 2 things you think should not be able to move into a cell. Explain your choice.

|  |  |
| --- | --- |
| Able to move in a cell | Not able to move in a cell |
|  |  |

Cell Membrane

* The cell membrane is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. This means that it allows some substances to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ through but not others.

Diffusion

* Diffusion happens when particles more from an area of \_\_\_\_\_\_\_\_\_\_ concentration to an area of \_\_\_\_\_\_\_\_\_\_\_\_\_ concentration.
* Concentration is the amount of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in a certain place. A place of higher concentration has more particles than a place of lower concentration.
* As particles move, a state of balance called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ will eventually be reached. Particles will still \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, but the rates of movement \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* Diffusion moves \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ from outside the cell to inside the cell.
* Diffusion moves \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ from inside the cell to outside the cell.

Osmosis

* Osmosis is the diffusion of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ through a selectively permeable membrane. This happens when water moves from an area of \_\_\_\_\_\_\_\_\_\_\_ concentration to an area of low concentration through a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* The process of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ occurs when water moves from an area of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ concentration to an area of higher concentration across a selectively permeable membrane. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ must be used for this to occur.

Think-pair-share:

If the concentration of water outside the cell is higher than it is inside the cell, in which direction will water move?

