

Name: _____

Osmosis & Diffusion Notes

EQ: _____

When you finish the notes, write the Level Questions for each section below:

Level 1 Question: _____

Answer: _____

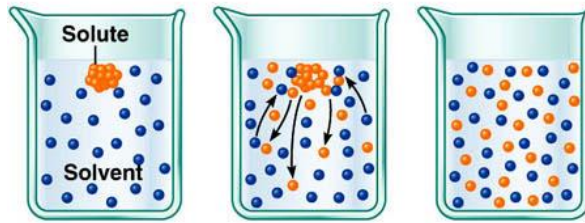
Level 2 Question: _____

Answer: _____

Solutes and Solvents:

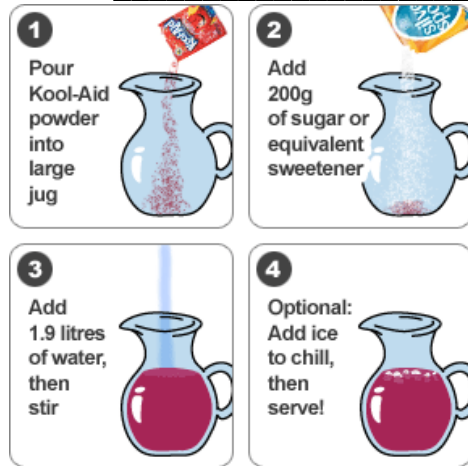
- _____ - Anything that is dissolved by a liquid.
- Solvent- _____
- _____ - The end product after the solute has dissolved into the solvent.
- Concentration - _____

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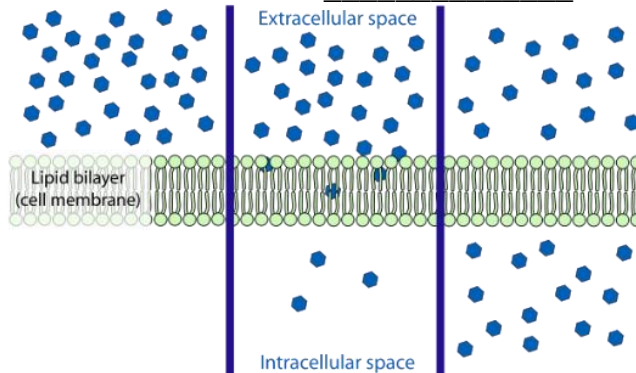
Which is Which? (Look at the definitions and decide.)

- What is the powder and Sugar? _____
- What is the water? _____
- What is the Kool-aid? _____



Cellular Transport:

- _____ - is the movement of molecules across a cell membrane from an area of _____ concentration to an area of _____ concentration.



TIME

Level 2 Question: _____

Answer: _____

Level 2 Question: _____

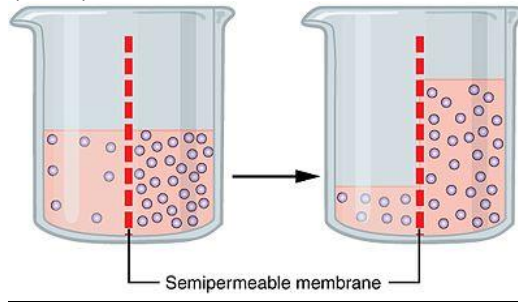
Answer: _____

Types of Diffusion

- _____ is the diffusion of _____ across a cell membrane, caused by a difference in solute concentrations on the two sides of the _____.

Osmosis

- **Osmosis** can mean going from **high** to **low** concentration **OR** even **low** to **high** concentration.
- It will flow in the direction that will help the cell reach an **isotonic** solution.
- In this picture, the **solute** is going from (circle) HIGH / LOW to (circle) HIGH / LOW, but the **solvent** is going from (circle) HIGH / LOW to (circle) HIGH / LOW.



Hypotonic Vs. Hypertonic

- _____ is a solution where there is more water and less solute.
- Hypertonic Solution is a solution where there is less _____.
- _____ is solution where the solvent and the solute are equal on both sides of the cell membrane. (think equilibrium)

Isotonic Solution "same or equal"	Hypertonic Solution "above/over/higher"	Hypotonic Solution "below/under/lower"
EQUAL amounts of solute in/out of cell.	HIGHER solute outside.	LOWER solute outside.

What is the answer to the EQ? _____

