

Passive Transport

Define the following words:

1. Diffusion— _____
2. Facilitated Diffusion— _____
3. Osmosis— _____
4. Active Transport— _____
5. Endocytosis— _____
6. Exocytosis— _____
7. Selectively Permeable Membrane— _____

Solutes are anything that are dissolved in a solvent. Solute concentration is measured in molarity (M is the units). The higher the number, the higher the concentration of solutes. Example: 84M is greater than 12M.

8. During Diffusion solutes will move from _____ concentration to _____ without the use of _____.
9. During Osmosis water will move from _____ concentration to _____ without the use of _____.

When two concentrations are separated by a selectively permeable membrane the following 3 terms are used to describe the differences.

Hypertonic—the solution that has a higher concentration

Hypotonic—the solution that has a lower concentration

Isotonic—when the two concentration are equal

Finish the sentences with the appropriate word: hypertonic, hypotonic, or isotonic

10. A 10M solution is _____ to a 25M solution.
11. A 8M solution is _____ to a 2M solution.
12. A 48M solution is _____ to a 38M solution.
13. A 10M solution is _____ to a 10M solution.
14. A 2M solution is _____ to a 28M solution.
15. A 76M solution is _____ to a 55M solution.
16. A 12M solution is _____ to a 2M solution.
17. A 0.2M solution is _____ to a 0.8M solution.
18. A 0.0M solution is _____ to a 0.0M solution.
19. A 1.0M solution is _____ to a 0.0M solution.
20. A 10% solution is _____ to a 60% solution.