

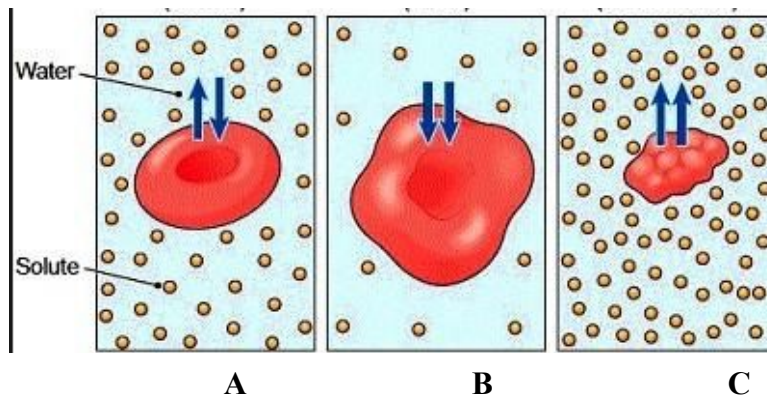
## DIFFUSION & OSMOSIS WORKSHEET

<b>Vocabulary</b>	
A selectively permeable membrane	Diffusion
Concentration	Osmosis

*Use your notes and the terms in the vocabulary box to fill in the blanks for the following 8 questions. Words may be used more than once.*




- 1) \_\_\_\_\_ refers to the amount of a substance in a given space.
- 2) \_\_\_\_\_ is the movement of particles from an area of higher concentration to an area of lower concentration.
- 3) \_\_\_\_\_ allows some materials to pass through it but keeps other materials out.
- 4) \_\_\_\_\_ is the diffusion of water molecules through a selectively permeable membrane.
- 5) \_\_\_\_\_ moves wastes from inside a cell to outside a cell.
- 6) \_\_\_\_\_ can be compared to a window screen.
- 7) \_\_\_\_\_ happens when water particles move from a place where their concentration is higher to a place where their concentration is lower.
- 8) \_\_\_\_\_ is the process by which oxygen is moved into and carbon dioxide is moved into a cell.

*Use the following diagram to answer questions 9 to 11*



- 9) Which diagram shows an isotonic solution? \_\_\_\_\_
- 10) Which diagram shows a hypertonic solution? \_\_\_\_\_
- 11) Which diagram shows a hypotonic solution? \_\_\_\_\_

12) Match each **Term** on the left with the best **Descriptor** on the right. Each Descriptor may be used only once

Term		Descriptor	
	Concentration	A.	Moves oxygen into cells
	Diffusion	B.	
	Equal amount of water inside a cell as outside	C.	Allows some substances through
	More water outside a cell than inside	D.	
	Selectively permeable membrane	E.	Amount of a substance in a certain place
	Osmosis	F.	
	More water inside a cell than outside	G.	Moves water into and out of cells

13) Explain what happens if you give a plant too much fertilizer.

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14) You have just bought a tropical fish for your freshwater aquarium (no salt). Unfortunately, you do not realize it is a saltwater fish (lives in and is isotonic to salt water). Using your knowledge of osmosis, explain why this fish will not survive in your aquarium.

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