Diffusion and Osmosis

Name: Date: Block:

DIFFUSION:

Classroom:		

Remember! The ______ states that particles are always !

Diffusion in cold water...

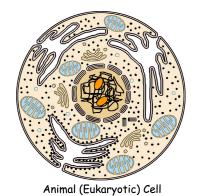


Diffusion in hot water...



Why do you think the speed of diffusion was different with cold and hot water?

In the cell membrane...



Selectively permeable membrane:

Particles pass across the SPM if there is a greater number on one side than the other side.

OSMOSIS:		
The	_ of	_ through a
Consider the diag	gram below.	

Semipermeable membrane

After

Look at the **BEFORE** picture.

• Which side has a higher concentration of particles?

Before

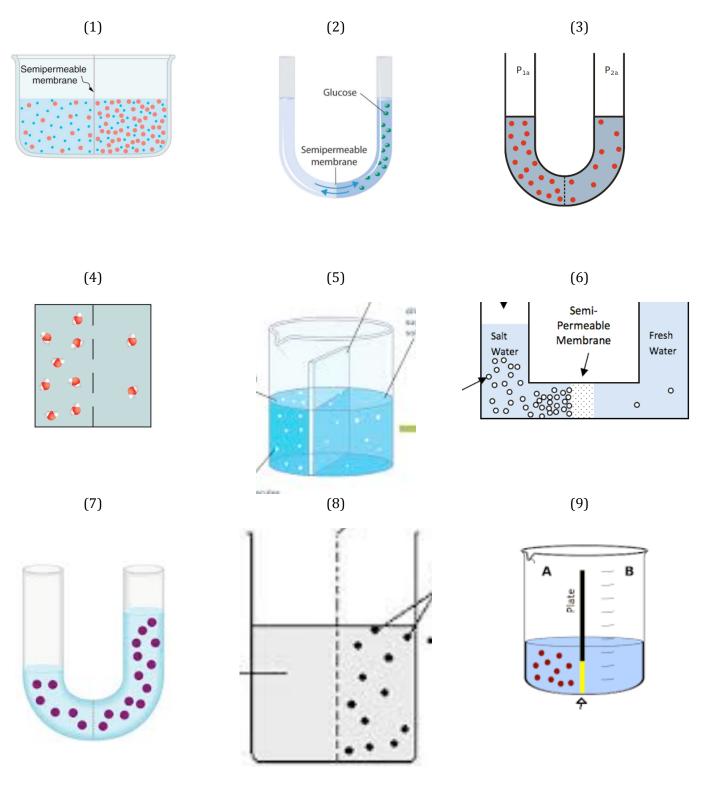
• In order to even out the concentration of particles, which way must the water move?

Look at the **AFTER** picture.

- Which side has a higher concentration of particles?
- Which side has more water?

Over time, _____ will be reached where the rates of the movement of water particles will stay the same.

For the pictures below, which direction do you think the water will move? Show your answer with an arrow.



There are three situations where there is a movement of water particles through a membrane.

Concentration inside and outside of the cell is the same. Inside = Outside	Before Osmosis	After Osmosis
Concentration of particles inside the cell is higher than the solution outside the cell. Inside > Outside	Before Osmosis	After Osmosis
3. Concentration of particles inside the cell is lower than the solution outside the cell. Inside < Outside	Before Osmosis	After Osmosis