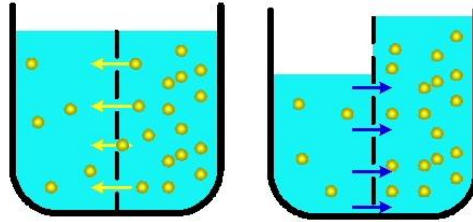


DIFFUSION/OSMOSIS VIRTUAL LAB



Diffusion
(Solvent moves by concentration gradient)

Osmosis
(Water moves by concentration gradient)

DIFFUSION

Click on the link below to see information on diffusion:
http://www.wisc-online.com/objects/index_tj.asp?objID=AP1903

*****Remember that solutes are things that are dissolved and solvents are things that do the dissolving.**

1. Is diffusion active or passive transport of particles across the cell membrane? _____
2. In the very beginning, how does the concentration of the blue particles on side A compare to that of side B?
3. What 3 things can molecules moving with kinetic energy do?
 - a.
 - b.
 - c.
4. Net diffusion moves down the concentration gradient from areas of _____ concentration to areas of _____ concentration.
5. Eventually the two sides will come to equilibrium. What is equilibrium?
6. What happens to the movement of molecules when their temperature is raised? _____
7. Lowered? _____

Watch the video: http://highered.mcgraw-hill.com/sites/0072495855/student_view0/chapter2/animation_how_diffusion_works.html

After the video scroll down and take the quiz. Submit your answers. When you have the results of your quiz, signal Mrs. B to write down your score here: _____

OSMOSIS

Click on the link below to see information on osmosis: http://www.wisc-online.com/objects/index_tj.asp?objID=AP11003

8. What is osmosis?

9. What does the dashed line in the beaker separating the two sides represent?_____
10. Why are they assuming the large molecules will stay on their own side of the membrane?

11. Because molecules will move from one side to another to come to an equilibrium, or balance of concentration, the _____moves from side B to side A, so the water level on side A goes _____.
12. In living things, cells must be in a _____ solution where water leaves and enters the cell at _____.
13. What happens to a cell in a concentrated, hypertonic environment? Click on the “View Movie” icon to find out.

14. What happens to a cell in a concentrated, hypotonic environment? Click on the “View Movie” icon to find out.

Watch the video:

http://highered.mcgraw-hill.com/sites/0072495855/student_view0/chapter2/animation_how_osmosis_works.html

After the video scroll down and take the quiz. Submit your answers. When you have the results of your quiz, signal Mrs. B to write down your score here:_____

DIFFUSION/OSMOSIS DIALYSIS BAG LAB

Click on <http://bioweb.wku.edu/courses/Biol114/Osmosis/Osmosis0.asp>

****Read the introductory information. Click on the red circles whenever you see them in the lab, and keep clicking on each one until you have completed the information at that red circle**

15. Diffusion is the movement of particles from a region in which they are _____ to a region in which they are _____.
16. Click on the red circle. In Biology, what keeps molecules concentrated, limiting disorder?_____.
17. If for example, NaCl is dissolved in water so that the concentration is initially higher in one part of the water than the other, _____ will occur so that there is a net

28. Draw the four test tubes that have the solution from the BEAKER AFTER the experiment and label them with what they are being tested FOR:

29. Which test tubes had a positive result?

30. Draw the four test tubes that have the solution from the DIALYSIS BAG AFTER the experiment and label them with what they are being tested FOR:

31. Which test tubes had a positive result?

32. Draw the two tables of results below:

Take the quiz at the end of the lab and PRINT the quiz page. Turn the printed page into Mrs. B stapled to this lab.