**DIFFUSION/OSMOSIS VIRTUAL LAB**

**View the diffusion animation attached to the website mrgeauvreau.weebly.com for March 13 and answer the questions below.**

1. Is diffusion active or passive transport of molecules across the cell membrane? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. Wear do molecules move when in solution? From an area of \_\_\_\_\_\_\_\_ concentration to an area of \_\_\_\_\_\_\_ concentration

3. Eventually the two sides will come to equilibrium. What is equilibrium? \_\_\_\_\_\_\_\_\_

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4. What happens to the movement of molecules when their temperature is raised? Make sure to click on temperature in the animation.

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**View the osmosis website located on the website above, directly below the diffusion link. Scroll down to osmosis!**

5. What is osmosis? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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6. Why are they assuming the large molecules will stay on their own side of the

membrane?

7. Because molecules will move from one side to another to come to an equilibrium, or

balance of concentration, the water moves from the side with fewer molecules to

the side with a higher concentration of molecules, so the water level on the side with fewer molecules in solution goes \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

8. In living things, cells must be in a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ solution where water

leaves and enters the cell at \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

9. How can osmosis be used to preserve food?

10. Define *dynamic equilibrium*:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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