

Diffusion and Osmosis Lab Worksheet

Name: _____

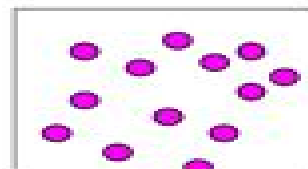
Diffusion is the movement of particles from areas of higher concentration to areas of lower concentration. It is a natural, random process. This means that it does not require extra energy input.

1. These are pictures of molecules frozen at two different times. Draw arrows to show the direction each particle might travel due to diffusion in diagrams A and B.

A.



B.



2. Diagram A shows the same number of particles as in Diagram B except most particles start out on one side of the box. Explain why after a while, Diagram A resembles Diagram B.

3. Give an everyday example of diffusion in air and in water.

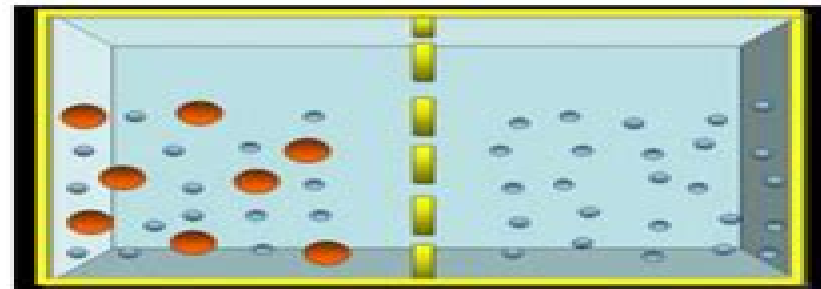
- AIR:
- WATER:

WORD BANK: Passive / Active / Lower / Higher / Unevenly / Evenly

4. Complete the following sentence: Diffusion is the _____ movement of particles from _____ concentration to a _____ concentration until they are _____ spread out.
5. Moths emit chemicals called pheromones to attract a mate.
- a) Which process is responsible for the distribution of these chemicals through the air?
 - b) If a moth detects pheromones, how might it work out which direction they are coming from?
 - c) What would be the advantage of a moth releasing the pheromones on a night when there was little wind?
6. Osmosis is the diffusion of water across a semi permeable membrane. The semi permeable membrane acts like a filter that lets only the water through. Water always goes from the area of higher water concentration to the area of lower water concentration. Confused? Then imagine the particles (or solute) are salt and follow the rule - SALT SUCKS!

On the diagram to the right label the:

- Semi permeable membrane (M)
- Area of higher water concentration (HC)
- Area of lower water concentration (LC)
- Direction of osmotic flow (arrow)



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