B

Diffusion and Osmosis Worksheet

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.

1a. 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.

Random arrows

B.

Random arrows

1b. Describe the way the particles of a gas move.

Randomly

1c. 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.

Molecules move randomly and reach equilibrium

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

AIR: e.g. Scents and Smells

WATER: **e.g. Colored dye in a glass of water**

3. Complete the following sentence: Diffusion is the -Random- movement of particles from -High- concentration to a -Low- concentration until they are Evenly spread out.

4. Moths emit chemicals called pheromones to attract a mate.

a) Which process is responsible for the distribution of these chemicals through the air?

Diffusion

b) If a moth detects pheromones, how might it work out which direction they are coming from?

Detect the higher concentration of pheromones

c) What would be the advantage of a moth releasing the pheromones on a night when there was little wind?

The pheromones arent blown away from a potential mate

5a. 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 on the next page label the:

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

5b.

Diffusion Worksheet Key

M Planty

Diffusion Worksheet Key:

The Enigmatic Realm of **Diffusion Worksheet Key**: Unleashing the Language is Inner Magic

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