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.

Ta. 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.

Random arrows



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

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

 Complete the following sentence: Diffusion is the -Random- movement of particles from -Highconcentration to a -Low- concentration until they are Eventy 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)



Answers Key Science 8 Osmosis Diffusion

Faye Brownlie, Carole Fullerton, Leyton Schnellert

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Cells: Diffusion and Osmosis Angela Wagner, 2013-04-01 This is the chapter slice Diffusion and Osmosis from the full lesson plan Cells Cells are the building blocks of life We take you from the parts of plant and animal cells and what they do to single celled and multi cellular organisms Using simplified language and vocabulary concepts we discover human cell reproduction as well as diffusion and osmosis Our resource provides ready to use information and activities for remedial students using simplified language and vocabulary Ready to use reading passages student activities and color mini posters our resource is effective for a whole class small group and independent work All of our content meets the Common Core State Standards and are written to Bloom's Taxonomy and STEM initiatives Osmosis Science Facts Ienny Smith, AI, 2025-02-13 Osmosis Science Facts explores the vital process of osmosis and its impact on hydration cellular health and overall well being It bridges the gap between complex scientific principles and practical applications revealing how osmosis affects crucial functions like nutrient uptake and waste removal at a cellular level The book showcases how understanding osmosis empowers individuals to optimize their hydration strategies and promote cellular health The book examines the foundational principles of osmosis the relationship between fluid balance and cellular health and the dynamics of molecular diffusion within cells It highlights the importance of understanding how our kidneys cells and circulatory system work together to maintain hydration levels Did you know that hydration isn t just about drinking enough water but ensuring that water permeates our cells effectively delivering essential nutrients and removing waste The book starts with the principles of osmosis then examines fluid balance and culminates with practical applications The unique value of Osmosis Science Facts lies in its focus on practical applications derived directly from scientific evidence avoiding overly technical jargon By translating complex concepts into actionable advice the book aims to provide readers with insights that can be

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