

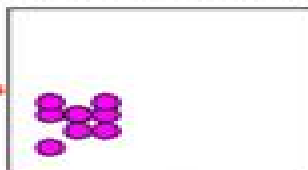
Diffusion and Osmosis Worksheet

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.

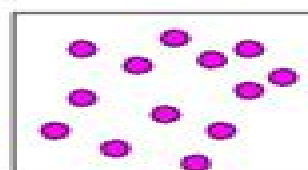
A.

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

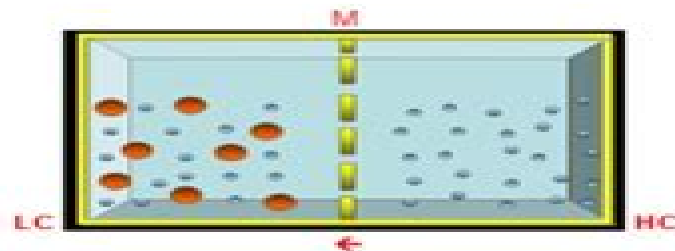
c) What would be the advantage of a moth releasing the pheromones on a night when there was little wind?

The pheromones aren't 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

Julia McMeans



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Spectrum Science, Grade 8 Spectrum,2014-08-15 Cultivate a love for science by providing standards based practice that captures children s attention Spectrum Science for grade 8 provides interesting informational text and fascinating facts about the nature of light the detection of distant planets and internal combustion engines When children develop a solid understanding of science they re preparing for success Spectrum Science for grades 3 8 improves scientific literacy and inquiry skills through an exciting exploration of natural earth life and applied sciences With the help of this best selling series your young scientist can discover and appreciate the extraordinary world that surrounds them 1500 Science Test

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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** Jenny

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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web the micrographs below are onion allium cepa root tip cells onion has $2n$ 16 chromosomes each of the cells has two sets
of chromosomes where each set is made up of eight chromosomes the micrographs are real examples of the illustrations
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duplicated and distributed equally to the daughter cells is called mitosis it helps to maintain the constant chromosome
number in all cells of the body

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web cell division and root elongation such processes enable a root to grow down into the soil to generate this image
arabidopsis thaliana plants were genetically labeled with a plasma membrane marker in green and a nuclear marker in
purple the root tips were imaged using time lapse microscopy in a confocal microscope with a vertical

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phase of cell division will appear as two nuclei are formed and have little or no cell wall between

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web 1 labeled student number of cells stage the individual student comparison of mitotic index and average cell length at
various levels in the root tip mitotic index and average cell length expressed as percentage of maximum observed root tip of

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