

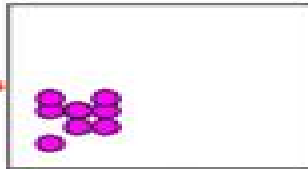
Diffusion and Osmosis Worksheet

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.

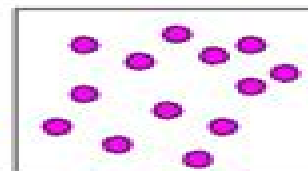
A.

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

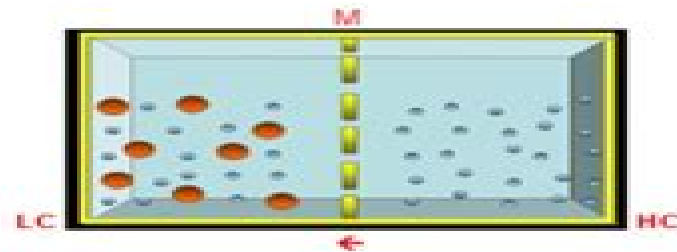
c) What would be the advantage of a moth releasing the pheromones on a night when there was little wind?

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

**Rob DeSalle, Holt Rinehart and
Winston**



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trainers science curriculum specialists advocates of hands on science teaching and concerned parents **Differentiated Lessons and Assessments - Science, Grade 6** Julia McMeans,2010 Practical strategies activities and assessments help teachers differentiate lessons to meet the individual needs styles and abilities of students Each unit of study includes key concepts discussion topics vocabulary and assessments in addition to a wide range of activities for visual logical verbal musical and kinesthetic learners Helpful extras include generic strategies and activities for differentiating lessons and McREL content standards **Teacher's Wraparound Edition: Two Biology Everyday Experience** Albert Kaskel,1994-04-19 Collaborating to Support All Learners in Mathematics and Science Faye Brownlie,Carole Fullerton,Leyton Schnellert,2011-06-23 In this second volume of It s All About Thinking the authors focus their expertise on the disciplines of mathematics and science translating principles into practices that help other educators with their students How can we help students develop the thinking skills they need to become successful learners How does this relate to deep learning of important concepts in mathematics and science How can we engage and support diverse learners in inclusive classrooms where they develop understanding and thinking skills In this book Faye Leyton and Carole explore these questions and offer classroom examples to help busy teachers develop communities where all students learn This book is written by three experienced educators who offer a welcoming and can do approach to the big ideas in math and science education today In this book you will find insightful ways to teach diverse learners Information circles open ended strategies inquiry manipulatives and models lessons crafted using curriculum design frameworks udl and backwards design assessment for as and of learning fully fleshed out lessons and lesson sequences inductive teaching to help students develop deep learning and thinking skills in Math and Science assessment tools and student samples for concepts drawn from learning outcomes in Math and Science curricula excellent examples of theory and practice made accessible real school examples of collaboration teachers working together to create better learning opportunities for their students Teachers' Manual and Key for Problems in General Science George William Hunter,Walter George Whitman,1931 **Spotlight Science** Lawrie Ryan,Keith Johnson,2004 This Framework Edition Teacher Support Pack offers support and guidance **The Science Teacher** ,2001 *The World of Science* David A. Heffernan,1997 Science procedures and processes Solar system Planet Earth Energy and motion Chemicals and their reactions Elements and their compounds Plants Life and living Modules McDougal Littell Incorporated,2005 *Prentice Hall Science* ,1993 *McGraw-Hill's GED Short Course* , *Disha Guide to RRB Assistant Loco Pilot (ALP) Stage I & II Exam with Previous Year Questions - 4th Edition | Indian Railway Recruitment Board* Disha Experts, The updated and revised 4th edition of the book Guide to RRB Assistant Loco Pilot ALP Exam Stage I II covers Comprehensive Sections on General Awareness Arithmetic General Intelligence Reasoning and General Science Technical Ability The General Science Technical Ability section has been divided into Physics Chemistry and Biology The book provides thoroughly updated Current Affairs section Previous year Solved Paper of 2024 2018 Stage I II Detailed theory

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