



Name:

Date:

Student Exploration: Osmosis

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Vocabulary: cell membrane, concentration, diffusion, dynamic equilibrium, osmosis, semipermeable membrane, solute, solvent

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. Suppose you were trapped on a desert island with no sources of fresh water. Should you drink water from the ocean? Explain why or why not.

you're gonna die from loss of water, so yes but not a lot. Saltwater is not as safe as freshwater, so by drinking too much saltwater you can mess yourself up.

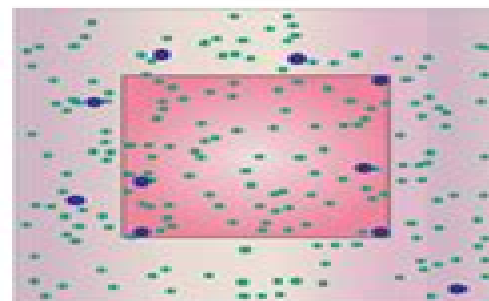
2. What do you think would happen if you watered your houseplants with salt water?

They would all slowly die.

Gizmo Warm-up

A **cell membrane** is a thin "skin" that surrounds a cell. It is a **semipermeable membrane**, which means that some particles pass through the membrane easily while others cannot.

The *Osmosis* Gizmo portrays a cell (red square) in a solution of purple **solute** particles dissolved in green **solvent** particles. Press **Play** () and observe.



1. Which particles can pass through the cell membrane?

the green particles (the solvent)

2. Which particles cannot pass through the cell membrane?

the blue particles (the solute)

3. Click **Reset** () , and then click **Play** again. What do you notice about the size of the cell?

It started small and expanded.

Explore Learning Osmosis Gizmo Osmosis Answers

John Kevin Murphy

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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An Exploration of Pupil Difficulties in Learning about Diffusion and Osmosis John Kevin Murphy,1983

Osmosis and Diffusion Science Learning Guide NewPath Learning,2014-03-01 The Osmosis Student Learning Guide includes self directed readings easy to follow illustrated explanations guiding questions inquiry based activities a lab investigation key vocabulary review and assessment review questions along with a post test It covers the following standards aligned concepts Cells The Basic units of Life Cell Membrane and Cell Transport Diffusion Diffusion in the Lungs Osmosis The Diffusion of Water Passive Transport Active Transport Osmosis in Plant Cells and Osmosis in Animal Cells Aligned to Next Generation Science Standards NGSS and other state standards

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