



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.

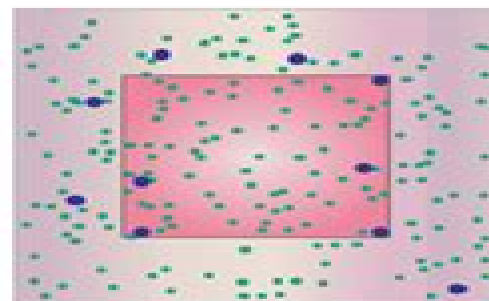
2. What do you think would happen if you watered your houseplants with salt water?

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.

Gizmo Osmosis Answer Key Teacher Guide

**Joseph M. Oxenhorn, Michael Norman
Idelson, Peter Greenleaf**



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Answer key and teacher's guide to laboratory investigations Biological Sciences Curriculum Study,1968

Teaching Guide and Answer Keys for the 12 Books in the Pathways in Science Series Joseph M.

Oxenhorn,Michael Norman Idelson,Peter Greenleaf,1975

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