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## Student Exploration: Osmosis

**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.

**No because the salt water is dangerous, and the water is dirty.**

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

**I think they would die slowly, with no chance of recovery.**

### 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.

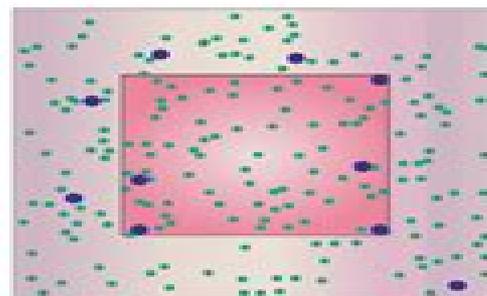
1. Which particles can pass through the cell membrane?

\_\_\_\_\_ **Solvent can pass through the cell membrane**

2. Which particles cannot pass through the cell membrane? \_\_\_\_\_ **Solute can't pass through the cell membrane** \_\_\_\_\_

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

\_\_\_\_\_ **the cell gets bigger than smaller like a pulse.**



# Explore Learning Student Exploration Osmosis Answer Key

**LM Reder**



## **Explore Learning Student Exploration Osmosis Answer Key:**

*The American Biology Teacher*, 2004      **Making Sense of Sensemaking** TJ McKenna, 2025 Dive into the transformative world of science education with this groundbreaking guide Learn how to navigate the journey from traditional teaching to a dynamic student centered approach that emphasizes understanding over rote learning Grounded in the latest educational research and aligned with the Next Generation Science Standards NGSS this book provides practical strategies for creating K 12 classrooms where students actively engage in scientific practices explore real world problems and build knowledge through inquiry and collaboration Readers will learn how to design lessons that foreground sensemaking through the integration of disciplinary core ideas crosscutting concepts and science and engineering practices to make learning relevant and exciting Teachers educational leaders and professional development providers will find valuable insights for supporting teachers in this shift ensuring that science education becomes more equitable and effective for all learners Making Sense of Sensemaking provides the tools and inspiration to elevate science education and cultivate scientifically literate citizens ready to tackle the challenges of the future Book Features Describes what sensemaking is why it is important and how to design learning experiences that foreground sensemaking Provides tangible examples of sensemaking experiences that can easily be incorporated into work in K 12 classrooms university methods courses preservice and professional learning sessions inservice Shows how to develop teacher capacity for sensemaking and ways to build sensemaking into a lifelong journey of learning Provides models pedagogical strategies and tangible examples that can be immediately implemented Offers guidance and rubrics for assessing STEM learning experiences in K 12 classrooms

**Through the Body** Dymphna Callery, 2015-12-22 In *Through the Body* Dymphna Callery introduces the reader to the principles behind the work of key practitioners of 20th century theater including Artaud Grotowski Brook and Lecoq She offers exercises that turn their theories into practice and explore their principles in action      [Young Adult Literature](#) Lois T. Stover, 1996 This book is designed to help middle school teachers develop concept based transdisciplinary units that reflect what we know about the importance of students working together to construct knowledge and the value of putting young adult literature at the center of such a planning process      **Invitation to Oceanography** Paul R. Pinet, 2019-10-10

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