

**Activity A:****Observing osmosis****Get the Gizmo ready:**

- Click **Reset**. Set the **Initial cell volume** to 40%.
- You will need a calculator for this activity.



**Question:** How do solute concentrations affect the volume of a cell?

1. **Observe:** Use the **Solute outside** slider to change the concentration of solute particles outside the cell. Click **Play**. In each case, focus on whether the cell gets bigger or smaller.

A. In what situation does the cell get larger?

*The cell expands when the solute outside is 7 or lower.*

B. In what situation does the cell get smaller?

*The cell shrinks when the solute outside is 8 or greater.*

2. **Calculate:** The **concentration** of a solute is the amount of solute particles in a given amount of solvent. To calculate percentage concentration, divide the number of solute particles by the total number of particles (solute + solvent), and then multiply by 100:

$$\% \text{ concentration} = (\text{solute} \div \text{total particles}) \times 100$$

Select the **DESCRIPTION** tab. Click **Reset**. Set the **Solute outside** to 10 and check that the **Initial cell volume** is 40%. (Note: The cell volume is expressed as a percentage of the container size.)

- A. How many solute particles are found inside the cell? **5** Outside? **10**
- B. How many solvent particles are found inside the cell? **74** Outside? **112**
- C. What is the total number of particles inside the cell? **79** Outside? **122**
- D. What is the % concentration of solute inside the cell? **6.33%**
- E. What is the % concentration of solute outside the cell? **8.20%**

3. **Observe:** Click **Play**, and observe the numbers shown on the **DESCRIPTION** pane. How does each number change over time? Write "increases," "decreases," or "stays the same" (or "same") in each space.

- Solute particles inside? *Stays the same*
- Solute particles outside? *Stays the same*
- Solvent particles inside? *Decreases*
- Solvent particles outside? *Increases*
- Solute concentration inside? *Increases*
- Solute concentration outside? *Decreases*

(Activity A continued on next page)

# Ph Gizmo Answer Sheet

**Mary Griffin**

A red circular graphic with a gradient, appearing as a partial circle or a thick arrow pointing to the right, located on the right side of the light blue bar.

**Ph Gizmo Answer Sheet:**

Electronic Musician ,1997      **The pH Scale** Mary Griffin,2018-12-15 The pH scale measures how acidic or basic a substance is ranging from 0 to 14 Readers will learn how certain substances rank on the pH scale what happens when acids and bases are mixed and how water can make a substance either acidic or basic These significant science concepts are discussed in approachable text and supported by motivating fact boxes charts images and photographs

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