

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Student Exploration: Diffusion

**Vocabulary:** absolute zero, controlled experiment, diffusion, dynamic equilibrium, Kelvin scale, kinetic energy

**Prior Knowledge Question** (Do this BEFORE using the Gizmo.)

Have you ever smelled microwave popcorn? The oddly enticing scent can fill a whole house.

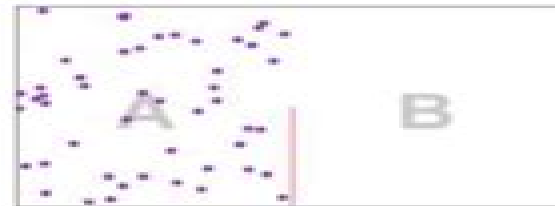
How do you think the smell of popcorn spreads through the air? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

### Gizmo Warm-up

Smells are carried by tiny particles that move through the air. The *Diffusion Gizmo*™ shows gas particles in a chamber that is divided into two regions by a partial wall. Click **Play** (▶) and observe.



1. Describe the motion of the gas particles. \_\_\_\_\_

\_\_\_\_\_

2. Over time, what is happening? \_\_\_\_\_

This process, in which particles move from an area of high concentration (region **A**) to an area of low concentration (region **B**), is called **diffusion**.

3. Select the **BAR CHART** tab, and observe the chart for a few minutes. After the first 30 seconds or so, how much do the numbers of particles in each region change? \_\_\_\_\_

\_\_\_\_\_

When the numbers don't change much, the particles are said to be at **equilibrium**.

4. Click **Pause** (⏸), and select the **GRAPH** tab. What does the graph tell you about the number of particles in region A? \_\_\_\_\_

\_\_\_\_\_

# Explore Learning Gizmo Answer Key Diffusion

**Wisconsin. Educational  
Communications Board**



**Explore Learning Gizmo Answer Key Diffusion:**

**Biennial Report - Wisconsin Educational Communications Board** Wisconsin. Educational Communications Board, 1971

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