

Name:

Date:

Student Exploration: Equilibrium and Concentration

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

Vocabulary: chemical equilibrium, concentration, equilibrium, equilibrium constant, reaction quotient, reversible reaction

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

Gary has \$5,000 in his bank account and earns a modest salary. Every month he pays for rent, food, utilities, and entertainment.

A. How will Gary's account change if he saves more than he spends?

B. How will Gary's account change if he spends more than he saves?

C. What happens if Gary spends exactly as much as he saves?

Gizmo Warm-up

If Gary spends exactly as much as he earns, his savings will be in **equilibrium**. Equilibrium occurs when two opposing processes occur at the same rate, leading to no net change. In the *Equilibrium and Concentration* Gizmo, you will investigate how equilibrium can occur in chemical reactions.

To begin, check that **Reaction 1** is selected. Set **Moles NO₂** to 8 and **Moles N₂O₄** to 0.



1. Click **Play** (▶) and observe the colliding molecules. What do you notice?

In the Gizmo, a blue flash appears every time two reactants combine to form a product. A red flash appears every time a product dissociates into reactants.

2. Click **Reset** (↺), and set **Moles NO₂** to 0 and **Moles N₂O₄** to 8. Click **Play**.

What do you notice now?

3. When a reaction can proceed in either direction, it is a **reversible reaction**. Based on what you have observed, is the synthesis of NO₂ into N₂O₄ a reversible reaction? Explain.

All Gizmo Answer Key

**Allan Mark Davis,C. K. Wong,Donald
Jay Hoffman,Edward Neufville
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