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## 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?

He will have more money

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

He will have less money

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

It will remain unchanged.

### 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  $\text{NO}_2$**  to 8 and **Moles  $\text{N}_2\text{O}_4$**  to 0.



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

The molecules are merging

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  $\text{NO}_2$**  to 0 and **Moles  $\text{N}_2\text{O}_4$**  to 8. Click **Play**.

What do you notice now? The molecules are disintegrating.

3. When a reaction can proceed in either direction, it is a **reversible reaction**. Based on what you have observed, is the synthesis of  $\text{NO}_2$  into  $\text{N}_2\text{O}_4$  a reversible reaction? Explain.

# Gizmo Equilibrium And Concentration Gizmo Answers

**M Planty**



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