

Name: **Rishi Nelson**

Date: **07-09-2022**

## 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

**Michael Seilmaier**

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the author's name.

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## **Table of Contents Gizmo Equilibrium And Concentration Gizmo Answers**

1. Understanding the eBook Gizmo Equilibrium And Concentration Gizmo Answers
  - The Rise of Digital Reading Gizmo Equilibrium And Concentration Gizmo Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Gizmo Equilibrium And Concentration Gizmo Answers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Gizmo Equilibrium And Concentration Gizmo Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Gizmo Equilibrium And Concentration Gizmo Answers
  - Personalized Recommendations
  - Gizmo Equilibrium And Concentration Gizmo Answers User Reviews and Ratings
  - Gizmo Equilibrium And Concentration Gizmo Answers and Bestseller Lists
5. Accessing Gizmo Equilibrium And Concentration Gizmo Answers Free and Paid eBooks
  - Gizmo Equilibrium And Concentration Gizmo Answers Public Domain eBooks
  - Gizmo Equilibrium And Concentration Gizmo Answers eBook Subscription Services
  - Gizmo Equilibrium And Concentration Gizmo Answers Budget-Friendly Options

6. Navigating Gizmo Equilibrium And Concentration Gizmo Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Gizmo Equilibrium And Concentration Gizmo Answers Compatibility with Devices
  - Gizmo Equilibrium And Concentration Gizmo Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Gizmo Equilibrium And Concentration Gizmo Answers
  - Highlighting and Note-Taking Gizmo Equilibrium And Concentration Gizmo Answers
  - Interactive Elements Gizmo Equilibrium And Concentration Gizmo Answers
8. Staying Engaged with Gizmo Equilibrium And Concentration Gizmo Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Gizmo Equilibrium And Concentration Gizmo Answers
9. Balancing eBooks and Physical Books Gizmo Equilibrium And Concentration Gizmo Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Gizmo Equilibrium And Concentration Gizmo Answers
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Gizmo Equilibrium And Concentration Gizmo Answers
  - Setting Reading Goals Gizmo Equilibrium And Concentration Gizmo Answers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Gizmo Equilibrium And Concentration Gizmo Answers
  - Fact-Checking eBook Content of Gizmo Equilibrium And Concentration Gizmo Answers
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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