

## Equilibrium and Concentration

## Answer Key

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

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

*[Note: The purpose of these questions is to activate prior knowledge and get students thinking. Students are not expected to know the answers to the Prior Knowledge Questions.]*

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

- How will Gary's account change if he saves more than he spends? *It will increase.*
- How will Gary's account change if he spends more than he saves? *It will decrease.*
- What happens if Gary spends exactly as much as he saves? *It will stay the same.*

### 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 NO<sub>2</sub>** to 8 and **Moles N<sub>2</sub>O<sub>4</sub>** to 0.



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

*Sample answer: The molecules move and collide. Occasionally there is a blue or red flash.*

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.

- Click **Reset** (↺), and set **Moles NO<sub>2</sub>** to 0 and **Moles N<sub>2</sub>O<sub>4</sub>** to 8. Click **Play**.

What do you notice now? *Sample answer: At first, there are more red flashes than blue flashes.*

- When a reaction can proceed in either direction, it is a **reversible reaction**. Based on what you have observed, is the synthesis of NO<sub>2</sub> into N<sub>2</sub>O<sub>4</sub> a reversible reaction? Explain.

*I know the synthesis of NO<sub>2</sub> into N<sub>2</sub>O<sub>4</sub> is a reversible reaction because both the forward reaction (blue flashes) and the reverse reaction (red flashes) are observed.*

# Explore Learning Equilibrium And Concentration Answers

**O García**



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## **Table of Contents Explore Learning Equilibrium And Concentration Answers**

1. Understanding the eBook Explore Learning Equilibrium And Concentration Answers
  - The Rise of Digital Reading Explore Learning Equilibrium And Concentration Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Explore Learning Equilibrium And Concentration 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 Explore Learning Equilibrium And Concentration Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Explore Learning Equilibrium And Concentration Answers
  - Personalized Recommendations
  - Explore Learning Equilibrium And Concentration Answers User Reviews and Ratings
  - Explore Learning Equilibrium And Concentration Answers and Bestseller Lists
5. Accessing Explore Learning Equilibrium And Concentration Answers Free and Paid eBooks

- Explore Learning Equilibrium And Concentration Answers Public Domain eBooks
  - Explore Learning Equilibrium And Concentration Answers eBook Subscription Services
  - Explore Learning Equilibrium And Concentration Answers Budget-Friendly Options
6. Navigating Explore Learning Equilibrium And Concentration Answers eBook Formats
- ePub, PDF, MOBI, and More
  - Explore Learning Equilibrium And Concentration Answers Compatibility with Devices
  - Explore Learning Equilibrium And Concentration Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Explore Learning Equilibrium And Concentration Answers
  - Highlighting and Note-Taking Explore Learning Equilibrium And Concentration Answers
  - Interactive Elements Explore Learning Equilibrium And Concentration Answers
8. Staying Engaged with Explore Learning Equilibrium And Concentration Answers
- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Explore Learning Equilibrium And Concentration Answers
9. Balancing eBooks and Physical Books Explore Learning Equilibrium And Concentration Answers
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Explore Learning Equilibrium And Concentration Answers
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Explore Learning Equilibrium And Concentration Answers
- Setting Reading Goals Explore Learning Equilibrium And Concentration Answers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Explore Learning Equilibrium And Concentration Answers
- Fact-Checking eBook Content of Explore Learning Equilibrium And Concentration 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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