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Name:	Date:

## Student Exploration: Equilibrium and Concentration

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

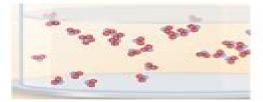
Gary has \$5,000 in his bank account and earns a modest salary. Every month he pays for rent, food, utilities, and entertainment.

- A. How will Gary's account change if he saves more than he spends? He will have more money in his account
- B. How will Gary's account change if he spends more than he saves? He will have less money in his account
- C. What happens if Gary spends exactly as much as he saves? He will have no money in his account.

#### 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  $NO_2$  to 8 and Moles  $N_2O_4$  to 0.



- Click Play ( ) and observe the colliding molecules. What do you notice? The molecules are colliding very slowly
- 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 (2), and set Moles NO<sub>2</sub> to 0 and Moles N<sub>2</sub>O<sub>4</sub> to 8. Click Play.
  - a. What do you notice now? The amount of liquid has risen.
- 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.
  - Yes it is because the reactions go either way.



# **Explorelearning Equilibrium And Concentration Gizmo Answer Key**

**Yi-Tong Ma** 

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The Top Books of the Year Explorelearning Equilibrium And Concentration Gizmo Answer Key The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have enthralled audiences this year. Explorelearning Equilibrium And Concentration Gizmo Answer Key: Colleen Hoovers "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Explorelearning Equilibrium And Concentration Gizmo Answer Key: Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Explorelearning Equilibrium And Concentration Gizmo Answer Key: Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These topselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he guickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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