

Name: Amanda BritoDate: 04/29/2019

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 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 NO₂** to 8 and **Moles N₂O₄** to 0.

- Click **Play** (▶) and observe the colliding molecules. What do you notice? **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 NO₂** to 0 and **Moles N₂O₄** to 8. Click **Play**.

What do you notice now? **There are more red flashes than blue.**

- 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.

I know the synthesis of NO₂ into N₂O₄ is a reversible reaction because both the forward reaction (blue flashes) and the reverse reaction (red flashes) are observed.



Gizmo Equilibrium And Concentration Answers

E Durkheim



Gizmo Equilibrium And Concentration Answers:

An Introduction to Equilibrium Problems, 2016 You use your basic understanding of equilibrium systems to try to solve some problems You tackle two kinds of equilibrium problems ones in which you are asked to calculate the equilibrium constant for an equation and ones in which you are asked to find the equilibrium concentration of a reactant or product

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