Name: Amanda Brito Date: 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.

- A. How will Gary's account change if he saves more than he spends? _it will increase.
- B. How will Gary's account change if he spends more than he saves? It will decrease.
- C. 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_2 to 8 and Moles N_2O_4 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

Robert R. Redfield

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