

Name: Kegan Graves Date: _____

Student Exploration: Limiting Reactants

Vocabulary: chemical equation, chemical formula, chemical reaction, coefficient, limiting reactant, molecule, product, reactant, subscript

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

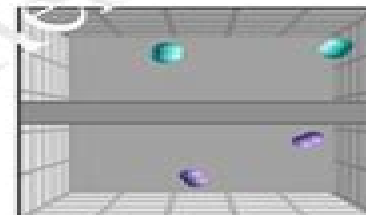
Imagine you and your friends are making hot dogs. A complete hot dog consists of a wiener and a bun. At the store, you buy four packages of eight wieners and three bags of 10 buns.

- How many total hot dogs can you make? 30
- Which ingredient limited the number of hot dogs you could make? buns
- Which ingredient will you have leftovers of? hotdogs

Gizmo Warm-up

Just as ingredients can be put together to make a new food, substances can combine during a **chemical reaction** to produce new substances. The substances that undergo change are called **reactants**. The new substances are **products**.

Sometimes during a chemical reaction, one type of reactant will be used up before the other reactants. This reactant is the **limiting reactant**. Using the Limiting Reactants Gizmo™, you can determine which reactant is limiting in various scenarios.



To begin, make sure $\text{H}_2 + \text{O}_2$ becomes H_2O is selected. The small "2" in H_2 , O_2 , and H_2O is a **subscript**. Subscripts represent the number of atoms in a **molecule**.

- Use the sliders to set the number of O_2 molecules and H_2 molecules to two.
 - How many hydrogen molecules (H_2) are there? 2 Hydrogen atoms? 4
 - How many oxygen molecules (O_2) are there? 2 Oxygen atoms? 4
- How many H_2O molecules do you think will form when these four molecules react? 2
- Click Play (▶). How many H_2O molecules actually formed? 3



Student Exploration Limiting Reactants Explore Learning Teacher Key

Ying-Ying Zheng



Student Exploration Limiting Reactants Explore Learning Teacher Key:

Unveiling the Magic of Words: A Review of "**Student Exploration Limiting Reactants Explore Learning Teacher Key**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Student Exploration Limiting Reactants Explore Learning Teacher Key**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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