

Name: Date:

Student Exploration: Limiting Reactants

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

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.

1. How many total hot dogs can you make?

2. Which ingredient limited the number of hot dogs you could make?

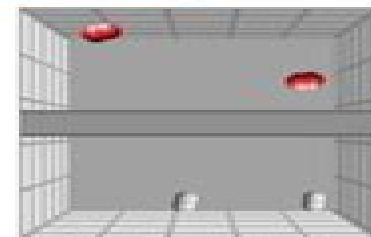
3. Which ingredient will you have leftovers of?

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**.



1. Use the sliders to set the number of O_2 molecules and H_2 molecules to two.

A. How many hydrogen molecules (H_2) are there?

Hydrogen atoms?

B. How many oxygen molecules (O_2) are there?

Oxygen atoms?

2. How many H_2O molecules do you think will form when these four molecules react?

3. Click **Play** (). How many H_2O molecules actually formed?

Student Exploration Limiting Reactants Answer Key

Julia Schneider



Student Exploration Limiting Reactants Answer Key:

Whispering the Secrets of Language: An Mental Quest through **Student Exploration Limiting Reactants Answer Key**

In a digitally-driven earth where displays reign supreme and instant conversation drowns out the subtleties of language, the profound secrets and mental nuances concealed within phrases frequently move unheard. Yet, located within the pages of **Student Exploration Limiting Reactants Answer Key** a fascinating fictional prize pulsing with fresh thoughts, lies an exceptional journey waiting to be undertaken. Written by an experienced wordsmith, that charming opus attracts readers on an introspective journey, delicately unraveling the veiled truths and profound impact resonating within ab muscles cloth of every word. Within the psychological depths of the poignant review, we shall embark upon a honest exploration of the book is core themes, dissect their interesting writing type, and fail to the effective resonance it evokes strong within the recesses of readers hearts.

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