

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Student Exploration: Limiting Reactants

Go to [www.explorelearning.com](https://www.explorelearning.com). Click "login with student code" and type the code ALEH880702.

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

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

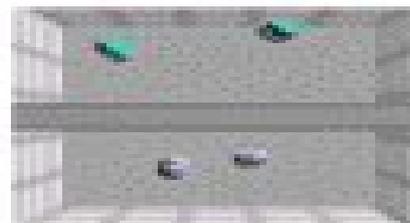
Imagine you and your friends are making hot dogs. A complete hot dog consists of a roller and a bun. At the store, you buy four packages of eight rollers and three bags of 10 buns.

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  $\text{H}_2 + \text{O}_2 \rightarrow \text{H}_2\text{O}$  is selected. The small "2" in  $\text{H}_2$ ,  $\text{O}_2$ , and  $\text{H}_2\text{O}$  is a **subscript**. Subscripts represent the number of atoms in a **molecule**.

1. Use the sliders to set the number of  $\text{O}_2$  molecules and  $\text{H}_2$  molecules to two.
  - A. How many hydrogen molecules ( $\text{H}_2$ ) are there? \_\_\_\_\_ Hydrogen atoms? \_\_\_\_\_
  - B. How many oxygen molecules ( $\text{O}_2$ ) are there? \_\_\_\_\_ Oxygen atoms? \_\_\_\_\_
2. How many  $\text{H}_2\text{O}$  molecules do you think will form when these four molecules react? \_\_\_\_\_
3. Click **Play** (▶). How many  $\text{H}_2\text{O}$  molecules actually formed? \_\_\_\_\_

# Student Exploration Limiting Reactants Answer Key Gizmo

**Raffaela Di Napoli**



**Student Exploration Limiting Reactants Answer Key Gizmo:**

## Reviewing **Student Exploration Limiting Reactants Answer Key Gizmo**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Student Exploration Limiting Reactants Answer Key Gizmo**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

<https://matrix.jamesarcher.co/results/scholarship/Documents/Pdf%20Acting%20Techniques%20For%20Beginners.pdf>

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