

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?

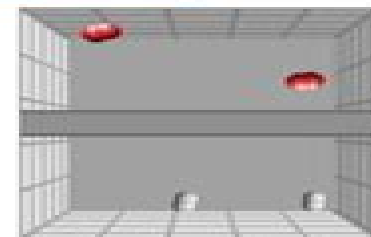
3. Which ingredient will you have leftovers of?

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?

Limiting Reactant Gizmo Answer Key

K Payea

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Limiting Reactant Gizmo Answer Key:

Delve into the emotional tapestry woven by in Dive into the Emotion of **Limiting Reactant Gizmo Answer Key** . This ebook, available for download in a PDF format (Download in PDF: *), is more than just words on a page; itis a journey of connection and profound emotion. Immerse yourself in narratives that tug at your heartstrings. Download now to experience the pulse of each page and let your emotions run wild.

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