

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 **H<sub>2</sub> + O<sub>2</sub> becomes H<sub>2</sub>O** is selected. The small "2" in H<sub>2</sub>, O<sub>2</sub>, and H<sub>2</sub>O is a **subscript**. Subscripts represent the number of atoms in a **molecule**.

1. Use the sliders to set the number of **O<sub>2</sub> molecules** and **H<sub>2</sub> molecules** to two.

A. How many hydrogen molecules (H<sub>2</sub>) are there?

Hydrogen atoms?

B. How many oxygen molecules (O<sub>2</sub>) are there?

Oxygen atoms?

2. How many H<sub>2</sub>O molecules do you think will form when these four molecules react?

3. Click **Play** (▶). How many H<sub>2</sub>O molecules actually formed?



# Limiting Reactant Gizmo Answer

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