

Name: _____ (Last, First, Middle) Date: _____

Student Exploration: Limiting Reactants

Vocabulary chemical equation, chemical formula, chemical reaction, coefficient, limiting reactant, molar mass, product, reactant, subscript

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

Imagine you are a pizza baker preparing pizzas each day. Assume that you always start with 100 lbs. of flour, 400 ounces of pizza toppings, and 10 eggs. How many pizzas can you make? Show your work.

1. How many pizzas can you make? _____ (lbs)
2. Which ingredient limits the number of pizzas you can make? _____ (flour)
3. Which ingredient allows you to make the most pizzas? _____ (eggs)

Gizmo Warm-up

Let's use the Gizmo to see how the limiting reactant affects the number of products that can be made. The Gizmo shows a chemical reaction with three **reactants**. The number of molecules of each reactant is shown in the **Reactants** pane.

Chemical reactions go through a reaction, and some of the reactants will be used up before the other reactants. This is called the **limiting reactant**. Chemical reactions always follow the **law of conservation of mass**, which means that matter is neither created nor destroyed.



Although water has the formula H_2O , sometimes H_2O_2 is produced. How much H_2 is in H_2O , H_2O_2 , and H_2O ? Is H_2O_2 a **hydrogen peroxide**. Hydrogen peroxide is a common disinfectant. **Hydrogen peroxide**

1. How many molecules of H_2 and O_2 are there? H_2 molecules: _____, O_2 molecules: _____
 - 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 can you make without using these four molecules? _____
3. Click Play. _____ How many H_2O molecules actually do form? _____

Limiting Reactant Gizmo Answers

Daniel F McAuley

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.

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