



Student Exploration: Limiting Reactants

Learning Objectives: chemical equation, chemical formula, chemical reactions, coefficient, limiting reactant, molecules, product, substance, substance

Prior Knowledge Questions: (Before class, ask students these questions about the scenario.)
 Suppose several pizza blizzards are making pizza. As ingredients are put together, all a chef can do is eat. At the table, you try to get past the pizza chef's stomach to get to the pizza.

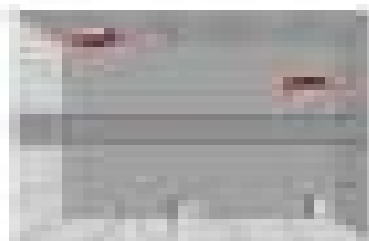
- How many pizzas did you get? 50 pizzas.
- Which ingredient did you eat first? The pizza.
- Which ingredient did you eat last? The pizza.

Answer the questions:

Just as the chef can't get past his stomach to get to the pizza, substances can combine to form a **product** in a chemical reaction. The substances that undergo chemical reactions are **reactants**. The new substances are **products**.

Chemists study a chemical reaction, and they use equations to represent what happens. Chemical reactions often follow a pattern. **Chemical reactions** follow the following pattern: **reactants** → **products**. (You can't have a chemical reaction without a limiting reactant.)

For example, when you mix H_2 and O_2 , you get H_2O . The chemical equation is $2H_2 + O_2 \rightarrow 2H_2O$. (You can't have a chemical reaction without a limiting reactant.)



- How many molecules of H_2 molecules and O_2 molecules are there?
 a. How many hydrogen molecules? 2
 b. How many oxygen molecules? 1
- How many H_2O molecules are produced? 2

How many H_2 molecules are produced? 2



Gizmo Explore Learning Student Exploration Limiting Reactants Answers

L Towner



Gizmo Explore Learning Student Exploration Limiting Reactants Answers:

Unveiling the Magic of Words: A Overview of "**Gizmo Explore Learning Student Exploration Limiting Reactants Answers**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Gizmo Explore Learning Student Exploration Limiting Reactants Answers**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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