

Student Exploration: Limiting Reactants (ANSWER KEY)

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Student Exploration: Limiting Reactants

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.

How many total hot dogs can you make? _____

Which ingredient limited the number of hot dogs you could make? __ _____

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**.

Use the sliders to set the number of O_2 molecules and H_2 molecules to two.

How many hydrogen molecules (H_2) are there? _____ Hydrogen atoms? _____

How many oxygen molecules (O_2) are there? _____ Oxygen atoms? _____

How many H_2O molecules do you think will form when these four molecules react? _____

Click **Play** (). How many H_2O molecules actually formed? _____

Activity A: Water reaction	Get the Gizmo ready: <ul style="list-style-type: none">• Make sure $\text{H}_2 + \text{O}_2$ becomes H_2O is selected.• Click Reset ().	
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Limiting Reactant Student Exploration Sheet Answer

Mike Jess

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

Limiting Reactant Student Exploration Sheet Answer:

Ignite the flame of optimism with is motivational masterpiece, Find Positivity in **Limiting Reactant Student Exploration Sheet Answer** . In a downloadable PDF format (PDF Size: *), this ebook is a beacon of encouragement. Download now and let the words propel you towards a brighter, more motivated tomorrow.

<https://www.splashdogs.com/public/uploaded-files/Documents/Hp%20C7000%20Onboard%20Administrator%20Module.pdf>

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