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 H₁ + O₁ becomes H₂O is selected. The small "2" in H₁, O₂, and H₂O is a subscript. Subscripts represent the number of atoms in a molecule.

Use the sliders to set the number of O, molecules and H, molecules to two.

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

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

How many H.O molecules do you think will form when these four molecules react?

Click Play (). How many H₂O molecules actually formed?

Activity A:	Get the Gizmo ready	
Water reaction	Make sure H ₂ + O ₂ becomes H ₂ O is selected. Click Reset ().	

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