

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Student Exploration: Chemical Equations

**Vocabulary:** Avogadro's number, chemical equation, chemical formula, chemical reaction, coefficient, combination, combustion, conservation of matter, decomposition, double replacement, molar mass, mole, molecule, product, reactant, single replacement, subscript

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

1. A candle is placed on one pan of a balance, and an equal weight is placed on the other pan.

What would happen if you lit up the candle and waited for a while? \_\_\_\_\_

\_\_\_\_\_

2. Suppose the candle was placed in a large, sealed jar that allowed it to burn for several minutes before running out of oxygen. The candle and jar are balanced by an equal weight.

In this situation, what would happen if you lit up the candle and waited? \_\_\_\_\_

\_\_\_\_\_

### Gizmo Warm-up

Burning is an example of a **chemical reaction**. The law of **conservation of matter** states that no atoms are created or destroyed in a chemical reaction. Therefore, a balanced **chemical equation** will show the same number of each type of atom on each side of the equation.

To set up an equation in the *Chemical Equations Gizmo™*, type the **chemical formulas** into the text boxes of the Gizmo. First, type in "H<sub>2</sub>+O<sub>2</sub>" in the **Reactants** box and "H<sub>2</sub>O" in the **Products** box. This represents the reaction of hydrogen and oxygen gas to form water.



1. Check that the **Visual** display is chosen on each side of the Gizmo, and count the atoms.
- A. How many hydrogen atoms are on the **Reactants** side? \_\_\_\_\_ **Products** side? \_\_\_\_\_
- B. How many oxygen atoms are on the **Reactants** side? \_\_\_\_\_ **Products** side? \_\_\_\_\_
2. Based on what you see, is this equation currently balanced? \_\_\_\_\_

# Gizmo Answer Key Chemical Equations

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Chemistry Equations & Answers Speedy Publishing,2014-08-01 One of the most important parts of learning chemistry is simply knowing all of the equations and formulas that are used in it It is important to know the exact formatting of these equations and most classes will require a student to know them for exams It is a good idea to learn these equations and formulas with the use of a study pamphlet The pamphlet can condense all of the information so a student can memorize the equations and formulas while studying

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[The Ultimate Chemical Equations Handbook](#) George R. Hague,Jane D. Smith,2001

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**Chemical Equations** James Nixon Pendlebury,1972

[Chemical Equations: Chemistry Essentials Practice Workbook with 200+ Reactions to Balance](#) Jake Mariska,2021-05-08 A chemical equation is something you will encounter every day in chemistry It s a written

representation using numbers and symbols of the process that occurs during a chemical reaction Master the art of balancing chemical reactions through examples and practice 10 examples are fully solved step by step with explanations to serve as a guide Over 200 chemical equations provide ample practice Exercises start out easy and grow progressively more challenging and involved Answers to every problem are tabulated at the back of the book A chapter of pre balancing exercises helps develop essential counting skills Opening chapter reviews pertinent concepts and ideas

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