

## Student Exploration: Chemical Equations Activity A & B

**Directions:** Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

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

1. A candle is placed on one pan of a balance, and equal weight is placed on the other pan. What would happen if you lit up the candle and waited for a while?

The candle would eventually burn, thus losing mass and becoming lighter. The pan with the other object would lower as the candle burns.

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 equal weight. In this situation, what would happen if you lit up the candle and waited?

I assume the balance would stay level because the carbon dioxide is trapped within the jar, causing it to retain all of its mass despite the candle burning.

### 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 <b>Reactants</b> side?	2	<b>Products</b> side?	2
B.	How many oxygen atoms are on the <b>Reactants</b> side?	2	<b>Products</b> side?	1

2. Based on what you see, is this equation currently balanced, meaning are there **equal** numbers of each reactant and product on both sides of the equation?

This equation is not currently balanced.

### Activity A:

#### Interpreting chemical formulas

#### Get the Gizmo ready:

- Erase the chemical formulas in each text box.
- Check that the **Visual** displays are selected.



# Chemical Equations Activity B Gizmo Answers

**Lei Huang**



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