

Name: Townsend Smith

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

## Student Exploration: Stoichiometry

**Vocabulary:** Avogadro's number, balanced equation, cancel, coefficient, conversion factor, dimensional analysis, formula mass, molar mass, mole, molecular mass, stoichiometry

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

1. A 250 mL glass of orange juice contains 22 grams of sugar. How much sugar is in a two-liter (2,000 mL) bottle of orange juice? 176g of sugar
2. It requires two sticks of butter to make a batch of 20 cookies. How much butter will it take to make 150 cookies? 15 butter sticks

### Gizmo Warm-up

Just as a cook follows a recipe to decide how much of each ingredient to add, a chemist uses **stoichiometry** to determine the amounts of substances involved in chemical reactions. The *Stoichiometry Gizmo* allows you to try your hand at figuring out the amounts of reactants and products that take part in a chemical reaction.

To begin, check that this equation is shown:



1. Look at the **coefficients** (such as the "3" in 3CO) in front of each substance in the equation. The coefficients tell you how many molecules or atoms take part in a chemical reaction. In the spaces below, list the number of each molecule or atom in the equation:

$\text{Fe}_2\text{O}_3$  1                      CO 3                      Fe 2                      CO<sub>2</sub> 3

2. In a **balanced equation**, the same number of each kind of atom is shown on each side of the equation. Calculate the number of iron (Fe), oxygen (O), and carbon atoms (C).

<b>Reactants</b>	Iron: <u>2</u>	Oxygen: <u>6</u>	Carbon: <u>3</u>
<b>Products</b>	Iron: <u>2</u>	Oxygen: <u>6</u>	Carbon: <u>3</u>

Based on these values, is the equation balanced? \_\_\_\_\_

New equation



New question

How many moles of carbon monoxide (CO) are required to react completely with 1.75 moles of iron (III) oxide (Fe<sub>2</sub>O<sub>3</sub>)?

Problems solved: 0



# Genetic Engineering Answer Key 13 Study Guide

**Rosina Ehmman**



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