

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

## Chemical Reactions: Basic Stoichiometry PhET Lab

<https://phet.colorado.edu/en/simulation/reactants-products-and-leftovers>

*The conservation of atoms in a chemical reaction leads to the ability to calculate the amount of products formed and reactants used (stoichiometry).*

### Introduction:

When we bake/cook something, we use a specific amount of each ingredient. Imagine if you made a batch of cookies and used way too many eggs, or not enough sugar. YUCK! In chemistry, reactions proceed with very specific recipes. The study of these recipes is *stoichiometry*. When the reactants are present in the correct amounts, the reaction will produce products. What happens if there are more or less of some of the reactants present?

Vocabulary: Before you begin using the simulation, please define the following:

Stoichiometry: \_\_\_\_\_

Limiting Reactant: \_\_\_\_\_

Excess Reactant: \_\_\_\_\_

Synthesis Reaction: \_\_\_\_\_

Combustion Reaction: \_\_\_\_\_

Mole Ratio: \_\_\_\_\_

Diatomic Molecule: \_\_\_\_\_

Mole: \_\_\_\_\_

Hydrocarbon: \_\_\_\_\_

**Procedure:** PhET Simulations → Play with the Sims → Chemistry → Reactants, Products, and Leftovers

[Run Sim!](#)

If a yellow bar drops down in your browser, click on it and select "Allow Blocked Content"

### PART 1: MAKING SANDWICHES:

[Sandwich Shop](#)

1. The [Cheese Sandwich](#) is a simulation of a two-reactant synthesis reaction. In this case, one reactant will be *limiting*, while the other will be in excess.
2. Take some time and familiarize yourself with the simulation.
3. Set the reaction to a simple mole ratio of 2:1:1



# Basic Stoichiometry Phet Lab Worksheet

**Lingjun Ying**



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