# Relative Mass and the Mole

How can atoms be counted using a balance?

# Why?

Consider the following equation for a chemical reaction: 2H, + O, → 2H,O

This can be interpreted as two molecules of hydrogen and one molecule of oxygen combining to form two water molecules. But how often do chemists limit their reactions to one or two molecules? Usually a reaction is done with an unimaginable number of molecules. How then do chemists know they have the right mix? The molecules need to be quickly counted! How do we count molecules? The answer is the unit called the mole. This activity will start by considering two egg farmers (a chicken farmer and a quail farmer). They produce such large numbers of eggs that they can't count them all individually, so they count in dozens of eggs in some cases, while in other cases they use mass. Weighing is often easier than counting!

# Model 1 – Eggs

| Chicken                         |                    | Quail                           |                    | Ratio of           | Ratio of          |
|---------------------------------|--------------------|---------------------------------|--------------------|--------------------|-------------------|
| Number of eggs<br>in the sample | Mass of the sample | Number of eggs<br>in the sample | Mass of the sample | numbers<br>of eggs | masses<br>of eggs |
| 1                               | 37.44 g            | 1                               | 2.34 g             | 1:1                | 16:1              |
| 10                              | 374 Ag             | 10                              | 23.4g              | 1:1                | 16:1              |
| 438                             | 16.394             | 438                             | 1.0259             | 1:1                | 16.1              |
| 1 dozen                         | 449.3g             | 1 dozen                         | 29.000             | 1:1:               | 16:1              |
| 1 million                       | 37.                | 1 million                       | 2.040.000 g        | 1:1                | 16:1              |

- 1. Consider the data in Model 1.
  - at. What is the mass of a standard chicken egg?

27.446

6. What is the mass of a standard quail egg?

2,349

a. Show mathematically how the 16:1 ratio of masses was calculated in the last column of Model 1.

27.44 +16

Use a calculator to complete the table in Model 1. Divide the work among group members. Reduce all ratios to the lowest whole numbers possible.

# **Relative Mass And The Mole**

Mitch Fry, Elizabeth Page

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# Relative Mass And The Mole Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has be more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Relative Mass And The Mole**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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