

Bell Ringer #13:

**Socratic Room Name:
LEVEL70WARRIOR**

Exam 2 Review

<http://drmoad.weebly.com/>

Agenda

Bell Ringer

Exam 2 Outline

Rutherford Gold Simulation

Drawing Atomic Models Activity

Isotope Simulation

Unit 2 Study Guide

Exit Ticket

What is due today?

**Isotope Lab
Molecular Weight Lab
Chemical Conversions Homework
NO NOTES TODAY**

Exam 2 Outline

- **Isotopes** (Isotope definition, Writing isotope names, calculating the number of neutrons)
- **Structure of the atom (3 subatomic particles)**
- **Early atomic models (Dalton, Thomson, Rutherford)**
- **Chemical Conversions (mol, atoms, molecules, grams)**

Rutherford Gold Foil Simulation

<https://phet.colorado.edu/en/simulation/rutherford-scattering>

- What type of atom did Rutherford use?
- What type of particles were fired at the atoms?
- What happened to some of these particles that was unexpected?
- How did this affect Rutherford's idea of the atom's structure?

Dalton's Atomic Theory (1808)

1. Each element is made up of tiny particles called atoms.
2. The atoms of a given element are identical; the atoms of different elements are different in some fundamental way or ways.
3. Chemical compounds are formed when atoms combine with each other. A given compound always has the same relative numbers and types of atoms.
4. Chemical reactions involve reorganization of the atoms - changes in the way they are bound together. The atoms themselves are not changed in a chemical reaction.

Draw Dalton's Model of the Atom

Draw Thomson's Model of the Atom

Draw Rutherford's Model of the Atom

Isotopes Computer Simulation

Fill in your half sheets and turn them in to me today.

Exam 2 Study Guide

<http://drmoad.weebly.com/>

Exit Ticket #13:

**Socratic Room Name:
LEVEL70WARRIOR**

Moles to Grams Conversion