

## Chem Notes 1.1 → Glue on page 25 FAF Left

- ◆ **ELEMENTS** = Pure substances made up atoms → Represented by chemical symbols
- ▶ **92** exist in nature; total of **118** as of today
  - ▶ Examples: **N** = Atmosphere, **O** = Earth's crust, **C** = living things
- ◆ **COMPOUNDS** = Two or more elements combined chemically
- ▶ **FIXED** proportions ( $\text{CO}_2 = 1 \text{ C atom and } 2 \text{ O atoms}$ ), but with **DIFFERENT** properties
  - ▶ May be **CRYSTALS** (framework) or **MOLECULE** (single compound)
  - ▶ Examples = **COAL** (85% C) and **SUGAR** (42% C), water ( $\text{H}_2\text{O}$ ), salt ( $\text{NaCl}$ )
- ◆ **MIXTURES** = Substances are mixed, but not chemically combined
- ▶ **DIFFERENT** proportions (Lemonade - very sweet vs. sour) with **PROPERTIES** based on particle size
  - ▶ **HOMOGENEOUS** - Appears the same throughout
    - **SOLUTION** - Occurs when a **SOLUTE** dissolves in a **SOLVENT**, such as salt water, air (O + other gases in N), & bronze (**ALLOY** of 2 metals).
    - **COLLOID** - Medium-sized particles, such as Jello & **MILK**
  - ▶ **HETEROGENEOUS** - Large particles, such as salad dressing, mud, **CLOUDS** ( $\text{H}_2\text{O}$  suspended in air) (**Suspension**) (**or FOG**)
- 3CO<sub>2</sub>**  
 Coefficient      Subscript  
 Chemical formulas – Represent compounds

**DUE BY CLASS TIME ON FRIDAY ...**

**ASSIGNMENT:**

**Create “doodle” notes on page 27 using ALL the words in Group 2.**

**1<sup>st</sup> - READ Section 1.2 in your textbook.**

**2<sup>nd</sup> - Watch the EDPuzzle video (Atomic Structure) to help you find all the words!**

**NOTE: You may include extra words!**


### Group 2: Atomic Basics

- Atomic Mass
- Atomic Number
- Bohr Diagram
- Electron
- Energy level
- Isotope
- Lewis Structure
- Neutron
- Nucleus
- Proton
- Valence

### Science Textbooks

Chemistry Unit 1  
 Chemistry 1:1 Text (New)  
 Chemistry 1:2 Text (New)

### Assignment

 Atomic Structure

**Want Extra Credit? Check your e-mail!**