

# Counting Atoms Worksheet

## Section 1: Counting in Simple Molecules

1.  $\text{H}_2\text{O}_2$  (Hydrogen Peroxide)
  - Count the number of each atom.
  - What is a common use of hydrogen peroxide in medicine?
2.  $\text{CH}_3\text{COOH}$  (Acetic Acid)
  - Count the number of each atom.
  - How does acetic acid relate to vinegar?

## Section 2: Counting in Organic Molecules

1.  $\text{C}_2\text{H}_5\text{OH}$  (Ethanol)
  - Count the number of each atom.
  - What role does ethanol play in beverages?
2.  $\text{C}_6\text{H}_6$  (Benzene)
  - Count the number of each atom.
  - Discuss why benzene is significant in industrial chemistry.

## Section 3: Inorganic Compounds

1.  $\text{CaCO}_3$  (Calcium Carbonate)
  - Count the number of each atom.
  - Explain how calcium carbonate is used in building materials.
2.  $\text{NaHCO}_3$  (Sodium Bicarbonate)
  - Count the number of each atom.
  - Describe a household use of sodium bicarbonate.