Name _	Date	period

## Count the elements in a compound

## **Objectives:**

- 1. To learn that compounds are made of atoms from different elements
- 2. To learn how to identify and count the elements in a chemical formula

## **Procedures:**

- 1. Count and separate the elements from the following formulas
- 2. Write the atoms of each element of the space provided

## **Examples:**

Sulfuric acid	Hydrogen Sulfur	(H) (S)	Ammonium acetates	Nitrogen	( N ) ( H )
	Oxygen	(O)		Carbon	( )
$H_2SO_4$	Amount of ele	ments	(NH <sub>4</sub> ) <sub>2</sub> CH <sub>3</sub> COO		( O )
				Amount of element	ts
Caffeine $C_8H_{10}N_4O_2$		( ) ( ) ( )	Ammonium acetate 4NH <sub>4</sub> CH <sub>3</sub> COO		_ ( )
	Amount of ele	ements		Amount of eleme	ents

Name of the compound and chemical formula	Amount of elements
Water H <sub>2</sub> O	
Hydrogen peroxide H <sub>2</sub> O <sub>2</sub>	
Ammonium sulfide 2(NH <sub>4</sub> ) <sub>2</sub> S	
$\begin{array}{c} Sugar \\ C_6H_{12}O_6 \end{array}$	

Name of the compound and chemical formula	Amount of elements
Terephthalic acid C <sub>6</sub> H <sub>4</sub> (COOH) <sub>2</sub>	
Ammonium 3NH <sub>4</sub> HCO <sub>3</sub>	
Ammonium hydroxide NH <sub>4</sub> OH	
Cadmium hypochlorite Cd(ClO) <sub>2</sub>	
Sodium acetate NaCH <sub>3</sub> COO	
Potassium dichromate $K_2Cr_2O_7$	
Halothane C <sub>2</sub> HBrClF <sub>3</sub>	
Acetic acid 2CH <sub>3</sub> CO(OH) <sub>2</sub>	
Potassium acetate CH <sub>3</sub> COOK	
Acetone 2(CH <sub>3</sub> C) <sub>3</sub> OCH <sub>3</sub>	