

SCI 10G

Chemical Formulas

Name: _____

Create the following chart in your notebook. Then find the elements in each compound given and the number of atoms of each element in the compound. The first one is done for you.

Name of Compound	Chemical Formula	Elements Present	Number/Type of Atoms	Compound (Yes/No)
1. Water	H ₂ O	- Hydrogen - Oxygen	- 2 atoms H - 1 atom O	Yes
2. Ammonia	NH ₃			
3. Acetylene	C ₂ H ₂			
4. Acetylsalicylic Acid (Asprin)	C ₉ H ₁₈ O ₄			
5. Hydrogen Chloride	HCl			
6. Fluoride	F ₂			
7. Nitric Acid	HNO ₃			
8. Sodium Bicarbonate (Baking Soda)	NaHCO ₃			
9. Sodium Hydroxide (Caustic Soda)	NaOH			
10. Calcium Carbonate (Chalk)	CaCO ₃			
11. Carbon Dioxide	CO ₂			
12. Carbon Monoxide	CO			
13. Oxygen	O ₂			
14. Acetic acid (Vinegar)	CH ₃ COOH			
15. Iodine	I ₂			

Define the following terms and provide an example:

Element

Definition - _____

Example - _____

Molecule

Definition - _____

Example - _____

Compound

Definition - _____

Example - _____

Chemical Formula

Definition - _____

Example - _____

Counting Atoms

Chemical Formula	Elements Present	Number/Type of Atoms	Total Number of Atoms
MgS			
$C_6H_{12}O_6$			
H_3PO_4			
H_3COCH_3			

Fill in the following charts for the compound given. Be sure to refer to your "Counting Atoms Rules".



Elements Present	Number of Atoms
Total Number of Atoms:	



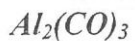
Elements Present	Number of Atoms
Total Number of Atoms:	



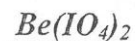
Elements Present	Number of Atoms
Total Number of Atoms:	



Elements Present	Number of Atoms
Total Number of Atoms:	



Elements Present	Number of Atoms
Total Number of Atoms:	



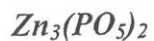
Elements Present	Number of Atoms
Total Number of Atoms:	



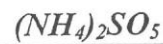
Elements Present	Number of Atoms
Total Number of Atoms:	



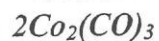
Elements Present	Number of Atoms
Total Number of Atoms:	



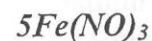
Elements Present	Number of Atoms
Total Number of Atoms:	



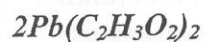
Elements Present	Number of Atoms
Total Number of Atoms:	



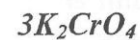
Elements Present	Number of Atoms
Total Number of Atoms:	



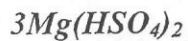
Elements Present	Number of Atoms
Total Number of Atoms:	



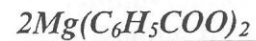
Elements Present	Number of Atoms
Total Number of Atoms:	



Elements Present	Number of Atoms
Total Number of Atoms:	



Elements Present	Number of Atoms
Total Number of Atoms:	



Elements Present	Number of Atoms
Total Number of Atoms:	