

SUBSCRIPTS

1. **SUBSCRIPTS** only refer to the atom that they are **FOLLOWING**. For example...

H₂Ş

There are TWO atoms of HYDROGEN and only ONE atom of SULFUR.

COEFFICIENTS

2. **COEFFICIENTS** apply to the entire compound. You **MULTIPLY** the coefficients and **SUBSCRIPTS**.



ATOMS OF HYDROGEN: 4
ATOMS OF SULFUR: 2

IF THERE ISN'T A SUBSCRIPT FOLLOWING AN ELEMENT, ASSUME THERE IS ONLY ONE ATOM OF THAT ELEMENT!

PARENTHESES

3. If elements or compounds are inside of **PARENTHESES**, then the **SUBSCRIPT** after the parentheses applies to everything inside.



ATOMS OF BARIUM: 1
ATOMS OF OXYGEN: 2
ATOMS OF HYDROGEN: 2

1. The **symbol** of an element represents one atom of that element.

Ba=___

2. A **subscript** is a number written at the *low*er right corner behind the symbol of an element. If there is more than one atom of the element, then a subscript is used to indicate the number of atoms.

Cl₂ = ____

3. A **subscript** outside a bracket multiples all the elements inside the brackets.

Ca₃(PO₄)₂

Ca = ____

P = ___

O = ___

Total Number of Atoms ____

	ot is a number written after the molecule.	er an atom in a for	mula and indicates t	he number of atoms	
H ₂ SO ₄					
H=					
S=	_				
0=	_				
Total Numbe	of Atoms	_			
Note: a coefi	cient multiples the numb	er of atoms of eac	ch element in the for	nula	

molecules of H₂O H (hydrogen) O (oxygen) Total	molecules of Na ₂ SO ₄ Na (sodium) S (sulfur) O (oxygen)	molecules of Pb(NO ₃) ₂ Pb (Lead) N (nitrogen) O (oxygen)
	Total	Total

Tune of Atoms	# of Atoms	Ba ₃ (PO ₄) ₂	# of Atoms
Type of Atoms	# of Atoms	Type of Atoms	# of Atoms
Total		Total	
Na ₂ CrO ₄		3 CaCl ₂	
Type of Atoms	# of Atoms	Type of Atoms	# of Atoms
Total		Total	

of Atoms	Type of Atoms	# of Atoms
	Total	
	2 (NH ₄) ₂ Cr ₂ O ₇	
of Atoms	Type of Atoms	# of Atoms
	Total	

