

Chemistry Cheat Sheet

Symbol: stands for a single element

- written with a capital letter OR a capital and a lowercase letter

C (carbon)	Ca (calcium)
N (nitrogen)	Na (sodium)

Compound: elements chemically bonded together

Formula: used to represent a compound

H ₂ O (water)	CH ₄ (methane)
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Subscript: a number in a formula that is written to the lower right of an element

- tells how many atoms of that element are in a compound

- if there is no number, there is one atom of the listed element

H₂O = 2 hydrogen, 1 oxygen

CH₄ = 1 carbon, 4 hydrogen

- if there are parentheses, the subscript multiplies everything inside of the parentheses

Fe(OH)₃ = 1 iron, 3 oxygen, 3 hydrogen

Cu(NO₃)₂ = 1 copper, 2 nitrogen, 6 oxygen

Chemical Equation: shows a chemical reaction

- shows the compounds involved in the reaction

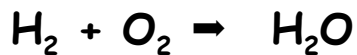
- **MUST** have the same number of each type of atom on both sides



→ means "yields" or "produces"

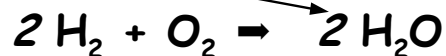
Coefficient: a number, written before a compound, that is used to balance a chemical equation

- it multiplies the atoms of the compound



Not Balanced

coefficient



Balanced

NOTE: You can NOT change any subscripts to balance an equation