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Periodic Table With Chemistry Formulas SparkCharts

* Periodic Table with Chemistry Formulas

sparkcharts

CHEMISTRY FORMULAS

ATOMS AND SUBATOMICS PARTICLES

- Atomic number:** The number of protons in nucleus of an atom, denoted by Z . It is generally equal to atomic no. (electron) bearing atoms (neutral).
- $Z = \text{Protons} = \text{Electron number}$
- Mass number:** The number of protons and neutrons in nucleus. It is denoted by A . It is the sum of atomic number (Z) and mass number (N).

| Name | Symbol | Mass | Charge |
|----------|--------|---------------------------|--------|
| Electron | e^- | 9.1×10^{-31} kg | -1 |
| Proton | p^+ | 1.67×10^{-27} kg | +1 |
| Neutron | n^0 | 1.67×10^{-27} kg | 0 |

- Isotopes:** Atoms of an element that possess different number of neutrons, but have the same atomic number (Z).
- Example:** $^{12}_6\text{C}$, $^{13}_6\text{C}$, $^{14}_6\text{C}$
- Calculating atomic mass:** An element's atomic mass number is the periodic table is calculated using the atomic masses of its isotopes.

or

| Atomic Mass | Mass No. A | Symbol | Mass | Charge |
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MOLECULAR MASS

- Angular momentum:** $L = mvr$, where m is mass, v is velocity, and r is radius of the electron's orbit.
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MOLECULAR FORMULA AND EMPIRICAL FORMULA

- Molecular formula:** Chemical formula of a compound that gives the actual number of atoms of each element in a molecule of the compound.
- Example:** $\text{C}_6\text{H}_{12}\text{O}_6$
- The empirical formula:** The formula that gives the simplest ratio of the atoms in a molecule.

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RELATIVE CHEMICAL EQUATIONS

- Chemical equation:** A chemical equation that shows the reaction between two or more substances to form one or more products.
- Example:** $\text{H}_2 + \text{O}_2 \rightarrow \text{H}_2\text{O}$
- Relative chemical equation:** A chemical equation that shows the reaction between two or more substances to form one or more products, where the coefficients are relative to the number of atoms of each element.

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Synopsis

SparkCharts®: The information you need—concisely, conveniently, and accurately. Created by Harvard students for students everywhere, these study companions and reference tools cover a wide range of college and graduate school subjects, from Business and Computer Programming to Medicine, Law, and Languages. They'll give you what it takes to find success in school and beyond. Outlines and summaries cover key points, while diagrams and tables make difficult concepts easier to grasp. This two-page chart is a perfect reference for homework and problem sets. On side one, the chart lists the most important chemical formulas and provides quick refreshers on significant figures and balancing equations. Side two includes a beautiful periodic table that gives the following information for each element: Name Atomic number Atomic symbol Atomic mass Oxidation states (most stable state in bold) Electronegativity Electron affinity First ionization potential Atomic radius Electron shell configuration

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