

Cosmic Chemistry: Understanding Elements

The Modern Periodic Table

STUDENT TEXT

Chemists at Los Alamos National Laboratory, a Genesis partner organization, supply the nation with purified chemicals. Their Web site displays a modern periodic table of the elements.

At the Web site <http://mwana1.lanl.gov/CST/imagemap/periodic/periodic.html> you may click on any element and access information about its physical and chemical properties, as well as other fascinating facts.



READING THE MODERN PERIODIC TABLE

Our modern day periodic table is expanded beyond Mendeleev's initial 63 elements. Most of the current periodic tables include 108 or 109 elements.

It is also important to notice how the modern periodic table is arranged. Although we have retained the format of rows and columns, which reflects a natural order, the rows of today's tables show elements in the order of Mendeleev's columns. In other words the elements of what we now call a "period" were listed vertically by Mendeleev. Chemical "groups" are now shown vertically in contrast to their horizontal format in Mendeleev's table.

Note also that Mendeleev's 1871 arrangement was related to the atomic ratios in which elements formed **oxides**, binary compounds with oxygen; whereas today's periodic tables are arranged by increasing atomic numbers, that is, the number of protons a particular element contains. Although we can imply the formulas for oxides from today's periodic table, it is not explicitly stated as it was in Mendeleev's 1871 table. The oxides ratio column was not shown in earlier Mendeleev versions. Can you think of a reason why not?

GROUPS

The modern periodic table of the elements contains 18 **groups**, or vertical columns. Elements in a group have similar chemical and physical properties because they have the same number of outer electrons. Elements in a group are like members of a family—each is different, but all are related by common characteristics.

Notice that each group is titled with Roman numerals and the letters A and B. Scientists in the United States and Europe now use different titles to refer to the same groups. To avoid confusion, the Roman numerals and letters designating groups will eventually be replaced by the numerals from one to eighteen.

PERIODS

Each of the table's horizontal rows is called a **period**. Along a period, a gradual change in chemical properties occurs from one element to another. For example, metallic properties decrease and nonmetallic properties increase as you go from left to right across a period. Changes in the properties occur because the number of protons and electrons increases from left to right across a period or row. The increase in number of electrons is important because the outer electrons determine the element's chemical properties.

The periodic table consists of seven periods. The periods vary in length. The first period is very short and contains only two elements, hydrogen and helium. The next two periods contain eight elements each. Periods four and five each have 18 elements. The sixth period has 32 elements. The last period is not complete yet because new **exotic** or man-made elements are still being made in laboratories.

Cosmic Chemistry Understanding Elements Answers

Arthur Strahler



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Chemistry Jerry A. Bell, American Chemical Society, 2005 The American Chemical Society has launched an activities based student centered approach to the general chemistry course a textbook covering all the traditional general chemistry topics but arranged in a molecular context appropriate for biology environmental and engineering students Written by industry chemists and educators Chemistry combines cooperative learning strategies and active learning techniques with a powerful media supplements package to create an effective introductory text Online description

The Living Cosmos Chris Impey, 2011-06-02 Considering the development of life on Earth the existence of life in extreme environments and the potential for life elsewhere in the Universe this book gives a fascinating insight into our place in the Universe Chris Impey leads the reader through the history from the Copernican revolution to the emergence of the field of astrobiology the study of life in the cosmos He examines how life on Earth began exploring its incredible variety and the extreme environments in which it can survive Finally Impey turns his attention to our Solar System and the planets beyond discussing whether there may be life elsewhere in the Universe Written in non technical language this book is ideal for anyone wanting to know more about astrobiology and how it is changing our views of life and the Universe An accompanying website available at www.cambridge.org/9780521173841 features podcasts articles and news stories on astrobiology

Music of Life Stanislav Tregub, 2020-08-08 Based on the Theory of Energy Harmony developed in the first two volumes of the series this book builds bridges between physical and life sciences It tackles fundamental questions that are considered the main riddles of biology How do the four elements of non living matter form the basic structures of living matter What is the physical mechanism that binds them into biochemical molecules The proposed model proceeds from the assumption that there are no special biophysical laws and the mechanism of energy interactions is universal for all types of matter The elements that form organic compounds have characteristics that allow them to create the Music of Life using this mechanism Starting from a detailed account of how notes of this music arise the book takes the reader step by step into the intricacies of the complex melodies harmonies and rhythms of living matter By answering fundamental questions about non animate and animate Matter the author paves the way to answering fundamental questions about the Mind These questions are easy to formulate What is it What does it do Why does it do it How does it do it However they are not easily answerable from a physical perspective which is the only perspective science can take Many people argue that the mission is impossible and explain the Mind away by proclaiming that it is non physical and thus inaccessible for scientific study The author shows that the lack of explanation is only due to cognitive science

remaining at the phenomenological level of study It only describes the observed physiological phenomena and their mental outcomes leaving an explanatory gap between them However as in physics causal explanation is the ultimate task in cognitive science We should uncover the mechanism that works in living systems and produces the mental phenomena we combine in the word Mind In this volume the author builds the foundation for the theory of the Mind developed in the following parts of the Symphony of Matter and Mind project Understanding Science Arthur Strahler,1992-08-01 No Marketing Blurb **NASA Technical Memorandum** ,1992 Industrial and Engineering Chemistry ,1927 Industrial & Engineering Chemistry ,1927 Macmillan Encyclopedia of Chemistry J. J. Lagowski,1997 Comprehensive and up to date this unique four volume set offers readers a complete overview of the broad spectrum of general chemistry It enables them to obtain a basic yet thorough understanding of matter the processes it undergoes the principles that govern it and the international cast of men and women who have been critical in the development of the science of chemistry From elements atoms and molecules to terochemistry spectroscopy and chemical bonding its clear and concise explanations provide an illuminating and readily comprehensible introduction Key presentations include forty element definition articles each providing basic periodic table information and general information on the element in question Ninety five biographical articles deal with prominent chemists while other articles provide additional historical context particularly with respect to eighteenth nineteenth and twentieth century developments *Journal of Chemical Education* ,1926 Includes Report of New England Association of Chemistry Teachers and Proceedings of the Pacific Southwest Association of Chemistry Teachers

Introduction to General Inorganic Chemistry Alexander Smith,1906 *The Chemical News* ,1928 Chemical news and Journal of physical science ,1897 Illinois Chemistry Teacher ,2003 The Flaming Sword ,1900 *Current Opinion* Edward Jewitt Wheeler, Frank Crane,1918 **Electrochemical and Metallurgical Industry** ,1922 **Current Literature** ,1918 The Chemical News and Journal of Physical Science ,1870 Platers' Guide ,1919

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