



## Cosmic Chemistry: Understanding Elements

## The Periodic Table: Atoms, Elements, and Isotopes

### TEACHER TEXT

The following is teacher background information and should only be used with students after they have completed the interactive periodic table lesson.

### CLASSIFICATION

Classification is an important science process skill. In the interactive simulation, students will classify elements based on their physical and chemical properties. This process is part of a larger realm, which is the unifying concept of systems order and organization. According to *The National Science Education Standards*, "The natural and designed world is complex; it is too large and complicated to investigate and comprehend all at once. Scientists and students learn to define small portions for the convenience of investigation. The units of investigation can be referred to as 'systems'." The periodic table represents such a system. Systems can be organized into a way that is useful. The standards point out that the "Types of organization include the periodic table of elements and the classification of organisms. Physical systems can be described at different levels of organization—such as fundamental particles, atoms, and molecules."

### WHAT IS NEXT?

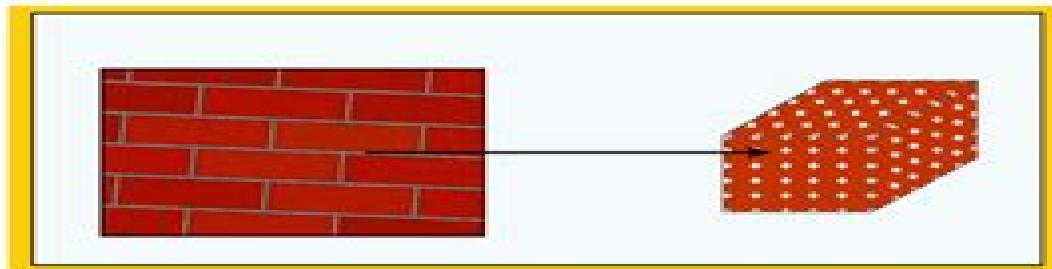
Background information for teachers follows. The four sections include:

- The Atom
- The Periodic Table
- Isotopes
- Oxygen Isotopes and the Genesis Mission

### ATOMS AND ELEMENTS

An atom is the basic structure from which all matter is composed, in the same manner as a brick is the basic structure from which a wall is built. Although atoms are too small to be seen with our eyes, scientists have long had indirect evidence for the existence of atoms. We can now use the world's most powerful scanning tunneling microscopes to "see" the magnified images of atoms and to study surface reaction sites on an atom-by-atom basis.

Figure 1



Just as a brick is basic to the structure of a wall, an atom is basic to the structure of matter.

# Answer Of Cosmic Chemistry Understnding Elements

**Arthur Strahler**

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The Chemical Elements Helen Miles Davis,1959    **Journal of the American Chemical Society** American Chemical Society,1914 Proceedings of the Society are included in v 1 59 1879 1937    Journal of Chemical Education ,1926 Includes Report of New England Association of Chemistry Teachers and Proceedings of the Pacific Southwest Association of Chemistry Teachers    *Compte Rendu* ,1985    British Chemical Abstracts ,1930    *British Chemical and Physiological Abstracts* ,1930    **The Biology of Cells** Herbert Stern,David Ledbetter Nanney,1965    Fantastic Realities: 49 Mind Journeys And A Trip To Stockholm Frank Wilczek,2006-03-13 With a contribution from Betsy DevineThe fantastic reality that is modern physics is open for your exploration guided by one of its primary architects and interpreters Nobel Prize winner Frank Wilczek Some jokes some poems and extracts from wife Betsy Devine s sparkling chronicle of what it s like to live through a Nobel Prize provide easy entertainment There s also some history some philosophy some exposition of frontier science and some frontier science for your lasting edification 49 pieces including many from Wilczek s award winning Reference Frame columns in Physics Today and some never before published are gathered by style and subject into a dozen chapters each with a revealing witty introduction Profound ideas presented with style What could be better Enjoy    NASA Technical Memorandum ,1992    Research and Technology Objectives and Plans Summary ,1992 A compilation of the summary portions of each of the RTOPs used for management review and control of research currently in progress throughout NASA P i    **Industrial Arts Index** ,1929    *Chemical Abstracts* ,1919    International Aerospace Abstracts ,1995    *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](http://www.cambridge.org/9780521173841) features podcasts articles and news stories on astrobiology    **The riddle of the universe at the close of the nineteenth century, tr. by J. McCabe** Ernst Heinrich P.A. Haeckel,1902    **Chemical & Metallurgical Engineering** ,1922    Prebiotic Evolution and Astrobiology J. Tze-Fei Wong, Antonio Lazcano,2009-05-01 With the accelerating pace of genomic analysis and space exploration the field of prebiotic evolution and astrobiology is poised for a century of unprecedented advances ahead and there is a need for textbooks for students The authors of this book aware of the difficulty of covering the multifaceted subject by any single author have decided to    Mendeleev Chemistry Journal ,1990    Metallurgical & Chemical Engineering Eugene Franz

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