



## ***Elements & Macromolecules in Organisms***

Most common elements in living things are carbon, hydrogen, nitrogen, and oxygen. These four elements constitute about 95% of your body weight. All compounds can be classified in two broad categories --- organic and inorganic compounds. Organic compounds are made primarily of carbon. Carbon has four outer electrons and can form four bonds. Carbon can form single bonds with another atom and also bond to other carbon molecules forming double, triple, or quadruple bonds. Organic compounds also contain hydrogen. Since hydrogen has only one electron, it can form only single bonds.

Each small organic molecule can be a unit of a large organic molecule called a macromolecule. There are four classes of macromolecules (polysaccharides or carbohydrates, triglycerides or lipids, polypeptides or proteins, and nucleic acids such as DNA & RNA). Carbohydrates and lipids are made of only carbon, hydrogen, and oxygen (CHO). Proteins are made of carbon, hydrogen, oxygen, and nitrogen (CHON). Nucleic acids such as DNA and RNA contain carbon, hydrogen, oxygen, nitrogen, and phosphorus (CHON P).

Use the drawing of the amino acid on this worksheet (look ahead to another page for this sketch and remember that the NUMBER OF LINES from a single atom is their NUMBER OF BONDS) to determine the number of bonds formed by:

\_\_\_2\_\_\_ Oxygen

\_\_\_1\_\_\_ Hydrogen

\_\_\_3\_\_\_ Nitrogen

The body also needs trace amounts of other elements such as calcium, potassium, and sulfur for proper functioning of muscles, nerves, etc. *Color* each of the elements on the next page according to the color listed next to the element's symbol. Then *Color code* the squirrel with the correct proportion of each element's color. Now *color code* the carrot with the same colors as you used on the squirrel.

# Elements And Macromolecules In Organisms Packet Answers

**George Graybill**



## **Elements And Macromolecules In Organisms Packet Answers:**

*Fundamentals of Geobiology* Andrew H. Knoll, Don E. Canfield, Kurt O. Konhauser, 2012-03-30 2012 PROSE Award Earth Science Honorable Mention For more than fifty years scientists have been concerned with the interrelationships of Earth and life. Over the past decade however, geobiology, the name given to this interdisciplinary endeavour, has emerged as an exciting and rapidly expanding field fuelled by advances in molecular phylogeny, a new microbial ecology made possible by the molecular revolution, increasingly sophisticated new techniques for imaging and determining chemical compositions of solids on nanometer scales, the development of non traditional stable isotope analyses, Earth systems science and Earth system history, and accelerating exploration of other planets within and beyond our solar system. Geobiology has many faces; there is the microbial weathering of minerals, bacterial and skeletal biomineralization, the roles of autotrophic and heterotrophic metabolisms in elemental cycling, the redox history in the oceans and its relationship to evolution and the origin of life itself. This book is the first to set out a coherent set of principles that underpin geobiology and will act as a foundational text that will speed the dissemination of those principles. The chapters have been carefully chosen to provide intellectually rich but concise summaries of key topics and each has been written by one or more of the leading scientists in that field. *Fundamentals of Geobiology* is aimed at advanced undergraduates and graduates in the Earth and biological sciences and to the growing number of scientists worldwide who have an interest in this burgeoning new discipline. Additional resources for this book can be found at <http://www.wiley.com/go/knoll/geobiology> SPBE, Self-pacing Biology Experiences James L. Kelly, Alan R. Orr, 1980 Microbiology Dave Wessner, Christine Dupont, Trevor Charles, Josh Neufeld, 2017-08-28 *Microbiology* 2nd Edition helps to develop a meaningful connection with the material through the incorporation of primary literature applications and examples. The text offers an ideal balance between comprehensive in depth coverage of core concepts while employing a narrative style that incorporates many relevant applications and a unique focus on current research and experimentation. The book frames information around the three pillars of physiology, ecology and genetics which highlights their interconnectedness and helps students see a bigger picture. This innovative organization establishes a firm foundation for later work and provides a perspective on real world applications of microbiology. *Bulletin of the Atomic Scientists*, 1961-05 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security. Founded by Manhattan Project Scientists, the Bulletin's iconic Doomsday Clock stimulates solutions for a safer world. Kos, 1993 *Elements in Living Organisms* Suzanne Slade, 2006-07-15 Explore the four elements: carbon, nitrogen, oxygen and hydrogen that are the major building blocks of life on Earth. **Atoms, Molecules & Elements: What Are Molecules? Gr. 5-8** George Graybill, 2015-10-01 This is the chapter slice: What Are Molecules from the full lesson plan: Atoms, Molecules, Elements. Young scientists will be thrilled to explore the invisible world of atoms, molecules and elements. Our resource provides ready to use information and activities for remedial students using

simplified language and vocabulary Students will label each part of the atom learn what compounds are and explore the patterns in the periodic table of elements to find calcium Ca chlorine Cl and helium He through hands on activities These and more science concepts are presented in a way that makes them more accessible to students and easier to understand Written to grade and using simplified language and vocabulary and comprised of reading passages student activities crossword word search comprehension quiz and color mini posters our resource can be used effectively for test prep and your whole class All of our content is aligned to your State Standards and are written to Bloom s Taxonomy and STEM initiatives Atoms, Molecules & Elements Gr. 5-8 George Graybill,2007-09-01 Young scientists will be thrilled to explore the invisible world of atoms molecules and elements Our resource makes the periodic table easier to understand Begin by answering what are atoms See how the atomic model is made up of electrons protons and neutrons Find out what a molecule is and how they differ from elements Then move on to compounds Find the elements that make up different compounds Get comfortable with the periodic table by recognizing each element as part of a group Examine how patterns in the period table dictate how those elements react with others Finally explore the three important kinds of elements metals nonmetals and inert gases Aligned to the Next Generation Science Standards and written to Bloom s Taxonomy and STEAM initiatives additional hands on experiments crossword word search comprehension quiz and answer key are also included *Water and Biological Macromolecules* Eric Westhof,1993 *Atoms, Molecules & Elements: What Are Compounds? Gr. 5-8* George Graybill,2015-10-01 This is the chapter slice What Are Compounds from the full lesson plan Atoms Molecules Elements Young scientists will be thrilled to explore the invisible world of atoms molecules and elements Our resource provides ready to use information and activities for remedial students using simplified language and vocabulary Students will label each part of the atom learn what compounds are and explore the patterns in the periodic table of elements to find calcium Ca chlorine Cl and helium He through hands on activities These and more science concepts are presented in a way that makes them more accessible to students and easier to understand Written to grade and using simplified language and vocabulary and comprised of reading passages student activities crossword word search comprehension quiz and color mini posters our resource can be used effectively for test prep and your whole class All of our content is aligned to your State Standards and are written to Bloom s Taxonomy and STEM initiatives **Periodic Tables Unifying Living Organisms at the Molecular Level** A. Lima-de-Faria,2017 The DNA sequencing of a series of living organisms has elucidated many biological problems But the internal atomic and electronic evolution of DNA remains to be mapped in detail RNA and DNA now appear to be the prime determinants of biological evolution leading to the sudden appearance of novel organism structures and functions that emerge ready made as a surprise to the organism This has been demonstrated by the manipulation of genes that led to the sudden production of additional complete wings and legs in flies and birds The study of this internal atomic construction of macromolecules is being investigated at the large electron accelerators such as the MAX IV Synchrotron Radiation

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**Elements Common to Most Living Organisms** Suzanne Slade,2007-01-01 Examines a variety of elements in living organisms Atoms, Molecules & Elements: What Are Elements? Gr. 5-8 George Graybill,2015-10-01 This is the chapter slice What Are Elements from the full lesson plan Atoms Molecules Elements Young scientists will be thrilled to explore the invisible world of atoms molecules and elements Our resource provides ready to use information and activities for remedial students using simplified language and vocabulary Students will label each part of the atom learn what compounds are and explore the patterns in the periodic table of elements to find calcium Ca chlorine Cl and helium He through hands on activities These and more science concepts are presented in a way that makes them more accessible to students and easier to understand Written to grade and using simplified language and vocabulary and comprised of reading passages student activities crossword word search comprehension quiz and color mini posters our resource can be used effectively for test prep and your whole class All of our content is aligned to your State Standards and are written to Bloom s Taxonomy and STEM initiatives **Atoms, Molecules & Elements: Properties of Important Elements Gr. 5-8** George

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