

Name: \_\_\_\_\_

**MACROMOLECULES**

Date: \_\_\_\_\_

**I. ELEMENTS AND 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 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). The body also needs trace amounts of other elements such as calcium, potassium, and sulfur for proper functioning of muscles, nerves, etc.

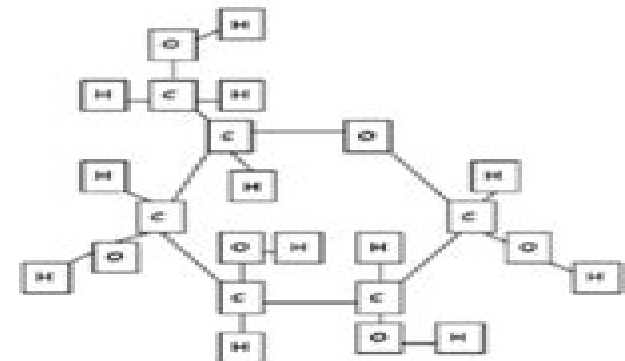
The four main classes of organic compounds (carbohydrates, lipids, proteins, and nucleic acids) that are essential to the proper functioning of all living things are known as polymers or macromolecules. All of these compounds are built primarily of carbon, hydrogen, and oxygen but in different ratios. This gives each compound different properties.

**Questions:**

1. What are the 4 main elements that make up 95% of an organism? \_\_\_\_\_
2. What are macromolecules? \_\_\_\_\_
3. Name the 4 classes of macromolecules: \_\_\_\_\_
4. What are the building blocks or subunits of macromolecules called? \_\_\_\_\_
5. Name 3 elements (symbols) your body needs trace amounts of for proper functioning \_\_\_\_\_

**II. CARBOHYDRATES:** are used by the body for energy and structural support in cell walls of plants and exoskeletons of insects and crustaceans. They are made of smaller subunits called **monosaccharides**. Monosaccharides have carbon, hydrogen, and oxygen in a 1:2:1 ratio. Monosaccharides or **simple sugars** include glucose, galactose, and fructose. Although their chemical formulas are the same, they have different structural formulas. These simple sugars combine to make disaccharides (double sugars like sucrose) and polysaccharides (long chains like cellulose, chitin, and glycogen).

**Task:** Color code the glucose molecule to the right -----> (carbon-black, hydrogen-yellow, and oxygen-red).

**Questions:**

6. Name 2 ways our body uses carbohydrates. \_\_\_\_\_
7. What are the monomers (subunits) that make up carbohydrates? \_\_\_\_\_
8. Monosaccharides are \_\_\_\_\_ sugars
9. Name 3 monosaccharides \_\_\_\_\_
10. What are disaccharides? Give an example \_\_\_\_\_
11. Long chains of sugar are \_\_\_\_\_. Name 3 \_\_\_\_\_

# Elements And Macromolecules In Organisms Answers

**N Noddings**



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

*Chemical Evolution* Bernd Markert, Stefan Fränzle, Simone Wünschmann, 2015-02-19 This book is written for researchers and students interested in the function and role of chemical elements in biological or environmental systems Experts have long known that the Periodic System of Elements PSE provides only an inadequate chemical description of elements of biological environmental or medicinal importance This book explores the notion of a Biological System of the Elements BSE established on accurate and precise multi element data including evolutionary aspects representative sampling procedures inter element relationships the physiological function of elements and uptake mechanisms The book further explores the concept Stoichiometric Network Analysis SNA to analyze the biological roles of chemical species Also discussed is the idea of ecotoxicological identity cards which give a first hand description of properties relevant for biological and toxicological features of a certain chemical element and its geo biochemically plausible speciation form The focus of this book goes beyond both classical bioinorganic chemistry and toxicology

**Around the World in 18 Elements** David Scott, 2015-11-06 Written with both students and educators in mind this book presents a tour of the elements found in the British A level syllabus Each chapter presents a key concept of chemistry in the context of the element instilling a wider background in chemistry to the reader which can then be tested by questions in the text Students of chemistry will enjoy this informative approach to revision while educators will gain inspiration for planning lessons and discussing concepts International baccalaureate and foundation year students will also benefit from the topics presented in this accessible textbook Find out more including resources at <http://www.rsc.org/learn/chemistry/resource/res00001996> around the world in 18 elements book

**Bioengineering** Mirjana Pavlovic, 2014-10-10 This book explores critical principles and new concepts in bioengineering integrating the biological physical and chemical laws and principles that provide a foundation for the field Both biological and engineering perspectives are included with key topics such as the physical chemical properties of cells tissues and organs principles of molecules composition and interplay in physiological scenarios and the complex physiological functions of heart neuronal cells muscle cells and tissues Chapters evaluate the emerging fields of nanotechnology drug delivery concepts biomaterials and regenerative therapy The leading individuals and events are introduced along with their critical research Bioengineering A Conceptual Approach is a valuable resource for professionals or researchers interested in understanding the central elements of bioengineering Advanced level students in biomedical engineering and computer science will also find this book valuable as a secondary textbook or reference

*Biology for Chemists* Mr. Rohit Manglik, 2024-03-21 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

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**The Web of Life** Fritjof Capra,1997-09-15 The vitality and accessibility of Fritjof Capra s ideas have made him perhaps the most eloquent spokesperson of the latest findings emerging at the frontiers of scientific social and philosophical thought In his international bestsellers The Tao of Physics and The Turning Point he juxtaposed physics and mysticism to define a new vision of reality In The Web of Life Capra takes yet another giant step setting forth a new scientific language to describe interrelationships and interdependence of psychological biological physical social and cultural phenomena the web of life During the past twenty five years scientists have challenged conventional views of evolution and the organization of living systems and have developed new theories with revolutionary philosophical and social implications Fritjof Capra has been at the forefront of this revolution In The Web of Life Capra offers a brilliant synthesis of such recent scientific breakthroughs as the theory of complexity Gaia theory chaos theory and other explanations of the properties of organisms social systems and ecosystems Capra s surprising findings stand in stark contrast to accepted paradigms of mechanism and Darwinism and provide an extraordinary new foundation for ecological policies that will allow us to build and sustain communities without diminishing the opportunities for future generations Now available in paperback for the first time The Web of Life is cutting edge science writing in the tradition of James Gleick s Chaos Gregory Bateson s Mind and Matter and Ilya Prigogine s Order Out of Chaos

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*Quantitative Understanding of Biosystems* Thomas M. Nordlund,Peter M. Hoffmann,2019-04-16 Praise for the prior edition The author has done a magnificent job this book is highly recommended for introducing biophysics to the motivated and curious undergraduate student Contemporary Physics a terrific text will enable students to understand the significance of biological parameters through quantitative examples a modern way of learning biophysics American Journal of Physics A superb pedagogical textbook Full color illustrations aid students in their understanding Midwest Book Review This new edition provides a complete update to the most accessible yet thorough introduction to the physical and quantitative aspects of biological systems and processes involving macromolecules subcellular structures and whole cells It includes two brand new chapters covering experimental techniques especially atomic force microscopy complementing the updated coverage of mathematical and computational tools The authors have also incorporated additions to the multimedia component of video clips and animations as well as interactive diagrams and graphs Key Features Illustrates biological examples with estimates and calculations of biophysical parameters Features two brand new chapters on experimental methods a general overview and focused introduction to atomic force microscopy Includes new coverage of important topics such as measures of DNA twist images of nanoparticle assembly and novel optical and electron nanoscopy Provides a guide to investigating current expert biophysical research Enhanced self study problems and an updated glossary of terms *Essential Cell Biology* Mr. Rohit Manglik,2024-07-25 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

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