



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, double, or triple 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 – carbohydrates, lipids, proteins, and nucleic acids. Carbohydrates and lipids are made of only carbon, hydrogen, and oxygen. Proteins are made of carbon, hydrogen, oxygen, and nitrogen. Nucleic acids, such as DNA and RNA, contain carbon, hydrogen, oxygen, nitrogen, and phosphorus.

Using the drawing of the amino acid below page 3, determine the number of bonds formed by oxygen, hydrogen, and nitrogen (each line indicates a bond).

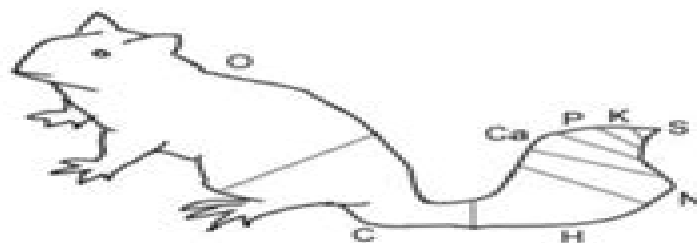
_____ Oxygen

_____ Hydrogen

_____ Nitrogen

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.

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** 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 Macromolecules In Organisms Answers

Textbook Equity



Elements 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

Physical Biology of the Cell Rob Phillips, Jane Kondev, Julie Theriot, Hernan Garcia, 2012-10-29 Physical Biology of the Cell is a textbook for a first course in physical biology or biophysics for undergraduate or graduate students It maps the huge and complex landscape of cell and molecular biology from the distinct perspective of physical biology As a key organizing principle the proximity of topics is based on the physical concepts that

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

Everybody's Story Loy Rue, 2000-01-01 This exhilarating tale of natural history illuminates the evolution of matter life and consciousness In *Everybody's Story* Loy Rue finds the means for global solidarity and cooperation in the shared story of humanity

Elements of Molecular Neurobiology C. U. M. Smith, 2003-06-13 This edition of the popular text incorporates recent advances in neurobiology enabled by modern molecular biology techniques Understanding how the brain works from a molecular level allows research to better understand behaviours cognition and neuropathologies Since the appearance six years ago of the second edition much more has been learned about the molecular biology of development and its relations with early evolution This evodevo as it has come to be known framework also has a great deal of bearing on our understanding of neuropathologies as dysfunction of early onset genes can cause neurodegeneration in later life Advances in our understanding of the genomes and proteomes of a number of organisms also greatly influence our understanding of neurobiology Well known and widely

used as a text throughout the UK good reviews from students and lecturers Good complement to Fundamentals of Psychopharmacology by Brian Leonard This book will be of particular interest to biomedical undergraduates undertaking a neuroscience unit neuroscience postgraduates physiologists pharmacologists It is also a useful basic reference for university libraries Maurice Elphick Queen Mary University of London I do like this book and it is the recommended textbook for my course in Molecular Neuroscience The major strength of the book is the overall simplicity of the format both in terms of layout and diagrams

The Handy Biology Answer Book Patricia Barnes-Svarney, Thomas E. Svarney, 2014-07-21 Easy to use and friendly guide explains the inner workings of cells bacteria viruses fungi plants animals as well as evolution the environment DNA and chromosomes genetics and genetic engineering laboratory techniques and much much more Gene therapy Forensic DNA profiling Biochemistry Biotechnology Cloning Stem Cells Super Bugs Genetically modified food Botany Zoology Sex The study of life and living organisms is ancient broad and ongoing Biology combines the Greek word for life bios with the suffix ology or science study knowledge of The new completely revised and updated The Handy Biology Answer Book examines explains and traces mankind's understanding of this important topic From the newsworthy to the practical and from the medical to the historical this entertaining and informative book brings the complexity of life into focus through the well researched answers to more than 1 250 common biology questions such as What is life Why do you need protein in your diet Do animals suffer from allergies just like humans What is the Human Genome Project Why do birds fly in formation Can the environment affect genes Do bacteria get addicted to caffeine What was the historical significance of hemp How are seedless grapes grown What is social Darwinism Can animals suffer from psychological disorders The Handy Biology Answer Book has clear concise answers to questions on everything from genetics to the anatomy of cells to the emotional life of elephants and from the environment and ecology to human biology and evolution It's a must have for any student of life With many photos illustrations and other graphics this tome is richly illustrated Its helpful bibliography and extensive index add to its usefulness

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

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