

NAME: _____ BLOCK: _____



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:

_____ Oxygen _____ Hydrogen _____ Nitrogen

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

Questions:

1. Name the 4 main elements that make up 95% of an organism.
2. Name the 4 types of bonds carbon can form.
3. What are macromolecules?
4. Name the 4 classes of macromolecules.
5. Give 2 examples of nucleic acids. _____
6. What elements make up carbohydrates & lipids (symbols)? _____
7. Name 3 elements your body needs trace amounts of for proper functioning.

Answer Key Elements And Macromolecules In Organisms

**Bernd Markert, Stefan Fränzle, Simone
Wünschmann**



Answer Key Elements And Macromolecules In Organisms:

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

Cell and Molecular Biology Essentials Bolakale Aremu, 2025-03-02 Are you ready to unlock the secrets of life itself Whether you re a high school student college learner or a curious mind seeking to understand the fundamental building blocks of life this comprehensive book is your ultimate guide to mastering cell and molecular biology without the overwhelm What s Inside This book takes you on an engaging journey through 38 well structured chapters covering everything from the basic principles of biology to the complex processes that sustain life at the cellular and molecular levels Key Topics Include The origins and evolution of life Understand how life evolved and adapted Cell structure and function Dive deep into prokaryotic and eukaryotic cells Genetics and DNA Discover how our genetic blueprints shape who we are Atoms molecules and chemical bonds Explore the microscopic forces that hold life together Thermodynamics in living systems Learn how energy flows through cells Enzymes metabolism and cellular respiration Uncover how cells power themselves The plasma membrane and transport systems See how cells communicate and manage resources Photosynthesis and energy production Follow the incredible story of plants capturing sunlight Cell signaling and communication Discover how cells talk to each other Oxidation reduction and redox reactions Essential processes for life itself And so much more Every concept is explained in simple clear language with bolded keywords to help you retain the most critical terms and ideas Real world examples tables and helpful summaries guide you along the way making this book perfect for independent learners and students preparing for exams Why This Book Stands Out Comprehensive Coverage Covers everything from evolution to gene therapy Easy to Understand Complex topics simplified without sacrificing accuracy Student Friendly Format Clear headings structured sections and key terms highlighted Practical Focus Connects biology concepts to everyday life medical breakthroughs and cutting edge technology Perfect for All Levels Whether you re just starting or need a refresher this book meets you where you are Who Should Read This Book High school students preparing for exams College and university students taking introductory biology Self learners interested in

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Essential Microbiology Stuart Hogg,2013-04-25 Essential Microbiology is a comprehensive introductory text aimed at students taking a first course in the subject Covering all aspects of microbiology it describes the structure and function of microbes before considering their place in the the living world The second half of the book focuses on applied aspects such as genetic engineering industrial microbiology and the control of microorganisms Adopting a modern approach and with extensive use of clear comprehensive diagrams Essential Microbiology explains key topics through the use of definition boxes and end of chapter questions This book is invaluable for undergraduate students in the biological food and health sciences taking a first course in Microbiology comprehensive introduction covering all aspects of this exciting subject includes numerous examples and applications from a wide range of fields definition boxes key points and self test questions enhance student understanding

Trace Elements in Man and Animals 6 Lucille S. Hurley,Carl L. Keen,2012-12-06 This book is the published proceedings of the Sixth International Symposium on Trace Element Metabolism in Man and Animals The Symposium was held at the Asilomar Conference Center in Pacific Grove California U S A from May 31 through June 5 1987 The decision to hold TEMA 6 at Asilomar was made at TEMA 5 in 1985 The International Guidance Committee decided to hold the meeting in California in part to recognize the significant contributions made to the field of trace element metabolism by Professor Lucille S Hurley As such she was the obvious choice as chair of the local organizing committee One of the principal goals of Professor Hurley was that TEMA 6 serve as a forum for discussing the use and application of newer methodologies such as molecular biology computer modelling and stable isotopes in studies of trace element metabolism Based on the comments which the local organizing committee has received this goal was achieved The Symposium was attended by 275 scientists from 32 countries covering 6 continents Twenty five speakers were chosen for our plenary sessions

Cambridge International AS and A Level Biology Coursebook with CD-ROM Mary Jones,Richard Fosbery,Jennifer Gregory,Dennis Taylor,2012-11 A series of titles which provides full support for the Cambridge International AS and A Level Biology syllabus Cambridge International AS and A Level Coursebook provides students with a full introduction to the AS and A Level syllabus and comprehensive support for their examination The experienced author team have reviewed the core text expanded the Applications of Biology chapters and added two new chapters on practical skills Each chapter now has a set of exam style practice questions as well as questions to help review the material Also included are advice on how to revise and prepare for the examinations multiple choice questions revision summaries and answers to all book questions

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Global Ecology Sven Erik Jørgensen, 2010-04-16 Global Ecology focuses on the perception of the biosphere or the ecosphere as a unified cooperative system with numerous synergistic effects which describe the distinctive properties of this sphere This book is subdivided into five parts dealing with diverse aspects in global ecology The first part of the book provides comprehensive description of the biosphere including its unique characteristics and evolution This part also describes various spheres in the biosphere such as the hydrosphere noosphere and pedosphere as well as their composition The next part focuses on the global cycles including calcium carbon iron microbial nitrogen oxygen phosphorus sulfur and water cycles In addition global balances and flows are explained Presented in the third part are the results of the global cycles and flows as well as the patterns of the climatic factors and marine currents There is also a part discussing the climate interactions climatic changes and its effect on the living organisms The book concludes by covering the application of stoichiometry in the biosphere and in ecosystems The book offers a comprehensive view of global ecology and ecological stoichiometry which will aid in the processes of global ecology Provides an overview of the theory and application of global ecology International focus and range of ecosystems makes Global Ecology an indispensable resource to scientists Based on the bestselling Encyclopedia of Ecology Full color figures and tables support the text and aid in understanding

Organism and Environment Sonia E. Sultan, 2015 Over the past decade advances in both molecular developmental biology and evolutionary ecology have made possible a new understanding of organisms as dynamic systems interacting with their environments This innovative book synthesizes a wealth of recent research findings to examine how environments influence phenotypic expression in individual organisms ecological development or eco devo and how organisms in turn alter their environments niche construction A key argument explored throughout the book is that ecological interactions as well as natural selection are shaped by these dual organism environment effects This synthesis is particularly timely as biologists seek a unified contemporary framework in which to investigate the developmental outcomes ecological success and evolutionary prospects of organisms in rapidly changing environments Organism and Environment is an advanced text suitable for graduate level students taking seminar courses in ecology evolution and developmental biology as well as academics and researchers in these fields

Inorganic Trace Analytics Henryk Matusiewicz, Ewa Bulska, 2017-12-18 Highly accurate chemical speciation is of great importance in

environmental clinical and food sciences as well as in archaeometry Trace analysis via atomic spectrometry mass spectroscopy gas chromatography electron microprobing or X ray absorption spectroscopy provides detailed information on surface and sub surface domain of samples The book comprehensively presents modern techniques timely application and data modeling

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>

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