

# Free ebook Chapter 2 the chemistry of life

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in this unit we will explore the foundations of life itself learning about macromolecules from proteins to nucleic acids by the end you will have a better understanding of the chemical properties that make life possible chemical bonds and reactions this unit is part of the biology library browse videos articles and exercises by topic learn about the chemistry of life the structure and function of biomolecules and the essential elements and compounds for living organisms explore the levels of organisation of matter the types of chemical bonds and the roles of water minerals vitamins and organic compounds learn how atoms elements and molecules are the basic building blocks of life and the nonliving world explore the structure and properties of atoms and how they interact through chemical and physical laws at its most fundamental level life is made up of matter matter occupies space and has mass all matter is composed of elements substances that cannot be broken down or transformed chemically into other substances from atoms to cells from genes to proteins from populations to ecosystems biology is the study of the fascinating and intricate systems that make life possible dive in to learn more about the our opening unit introduces students to the sciences including the scientific method and the fundamental concepts of chemistry and physics that provide a framework within which learners comprehend biological processes life originally evolved in a watery environment and most of an organism's cellular chemistry and metabolism occur inside the watery contents of the cell's cytoplasm understanding the characteristics of water helps to elucidate its importance in maintaining life this video covers the basics of inorganic and organic chemistry we will look at water and minerals as examples of inorganic substances we then take a look at organic substances which are broken learn how the elements carbon hydrogen nitrogen oxygen sulfur and phosphorus form the biological macromolecules of life explore the properties and functions of carbohydrates nucleic acids proteins and lipids in this chapter find lessons on chemistry of life for all grades free interactive resources and activities for the classroom and home learn how ph buffers and carbonic acid affect the chemistry of living organisms perform experiments to measure ph observe buffering capacity and demonstrate the role of bicarbonate in blood in this chapter we will study the molecular structure and biological functions of key molecules important to life we will study the chemistry of proteins carbohydrates lipids vitamins and nucleic acids and will learn the role of each nutrient class in plant and animal life chemical bonds hold molecules together and create temporary connections that are essential to life types of chemical bonds including covalent ionic and hydrogen bonds and london dispersion forces a molecule with two or more different kinds of atoms is called a compound the atoms or molecules present before the chemical reaction occurs are the reactants study with quizlet and memorize flashcards containing terms like atom element neutron and more some 60 chemical elements are found in the body but what all of them are doing there is still unknown roughly 96 percent of the mass of the human body is made up of just four elements oxygen our opening unit introduces students to the sciences including the scientific method and the fundamental concepts of chemistry and physics that provide a framework within which learners comprehend biological processes living organisms need to consume organic and inorganic compounds which they break down for energy and use as building blocks for the components of life essential compounds are those that a living organism cannot build itself from other molecules but must obtain from its environment chemistry is a big part of your everyday life you find chemistry in foods the air cleaning chemicals your emotions and literally every object you can see or touch here are 10 examples of everyday chemistry jack szostak lab uncovers new mechanisms of rna stability and interaction paving the way for origins of life discoveriesthe jack szostak lab has published new research in the journal of the american chemical society on how rna strands interact in new and fascinating ways

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living organisms need to consume organic and inorganic compounds which they break down for energy and use as building blocks for the components of life essential compounds are those that a living organism cannot build itself from other molecules but must obtain from its environment

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