

Chemical Basis of Life

Vocabulary

Polarity

Concentration

4 carbon compounds

monosaccharide

lipid

enzyme

Hydrogen bond

Solution

monomer

polysaccharide

fatty acid

catalyst

Adhesion

Solute

polymer

amino acid

nucleic acid

pH

Cohesion

Solvent

carbohydrate

protein

nucleotide

specific heat

Concepts to Know

WATER

Why so special and important?

Nearly 75% of our earth is covered in water.

Our bodies are 60-65% water. Our blood is 85% water.

None of the many reactions that occur in our bodies would occur without water.

Composition of water: H_2O

Properties of Water

- Water is **POLAR**.

The diagram shows that one side of the water molecule is **positively charged** and the other is **negatively charged**.

The molecule itself is neutral. These opposite charges make water a **polar molecule**.

- Water undergoes **ADHESION** and **COHESION** due to its polarity.

The **negative oxygen** of one water molecule is attracted to the **positive hydrogen** of another molecule forming a **hydrogen bond**. In other words water likes to stick to itself. Water sticking to water is called **cohesion**. Water's polarity allows it to attract to other surfaces too (like glass). Water sticking to something else is called **adhesion**.

- In the diagram to the right use dotted lines to draw in the bonds that form between water molecules.

Positives connect to negatives, up to four bonds per water molecule.

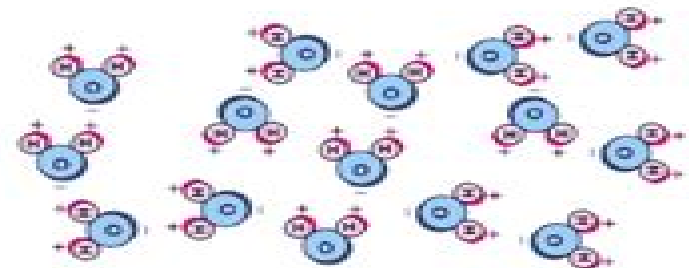
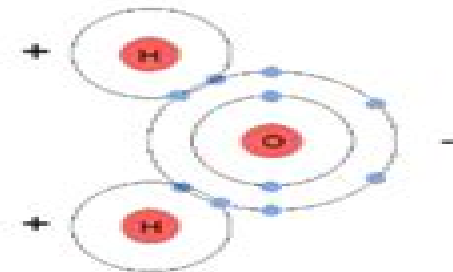
- What is the name of this type of bond?

Hydrogen or "H" bond

- What special property do the bonds give to water.

Several: cohesion first and foremost (water sticking to itself).

Creates surface tension on the water (water skipper can seemingly "walk" on water)



Answer Key Chemical Basis Of Life

Dr. Ruchita Tripathi



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over three billion years ago just as life was beginning to flourish on Earth a significant and unique record of activity from that era perhaps relevant to the origin of life still resides there today In recognition of this both the US and Europe are currently engaged in one of the most ambitious programs of exploration ever undertaken Built on our legacy of Mars exploration from the Viking era and before a far reaching phased program of robotic exploration now and over the coming decades aims at obtaining definitive answers about the origin and nature of the red planet and what it has to say about the origin and cosmic abundance of life This book examines these issues in one of the most comprehensive treatments ever written about the planet Mars and our legacy of engagement with it in language suitable for non expert and expert alike Opening chapters consider the question of life in the Universe and the origin of life on Earth and what challenges face us in uncovering defining answers With a realization of its importance in this the next section examines the legacy of our engagement with Mars From Kepler s work on its orbit Schiaparelli s efforts to resolve its surface features and NASA s Mariner and Viking programs attempting to determine whether life resides upon the surface Mars has remained elusive yet always prodding and extending our capabilities in exploration and our perception of our place in the Universe Subsequent chapters consider our current understanding of the planet and the recently devised comprehensive program for scientific exploration All recent current and upcoming missions and the latest findings are discussed in detail providing our best understanding yet of a vast and ancient landscape indeed characterized by significant activity relevant to our quest and which also points to a planet far from dead today Late chapters consider NASA and ESA plans for Mars over the next thirty years increasingly shaped by the scientific successes to date unprecedented public interest and by issues of planetary protection And with mounting political interest our program for Mars may culminate in a human mission to Mars perhaps sometime around 2040 The greatest discovery however remains to be made If even one microbe is found on Mars it will reveal a cosmic context for life with Earth as one place among many harboring life confirming our cosmic origins and destiny

Evolution and "the Sex Problem" Bert Bender, 2004 A noteworthy investigation of the Darwinian element in American fiction from the realist through the Freudian eras theories of sexual selection and of the emotions are essential elements in American fiction from the late 1800s through the 1950s particularly during the Freudian era and the years surrounding the Scopes trial the Sex Problem and what resulted was a great diversity of American narratives aligned with either Darwinian or a number of anti Darwinian theories of evolution Included are intriguing discussions of works by Frank Norris Jack London Stephen Crane Theodore Dreiser Gertrude Stein Willa Cather Sherwood Anderson F Scott Fitzgerald five writers of the Harlem Renaissance John Steinbeck and Ernest Hemingway Among the ideas explored are Darwin s theory of common descent the question of man s place in nature the possibility of evolutionary progress the issues of heredity and eugenics the Darwinian basis of Freud s theory of sexual repression the quandary of male violence and the role of female choice in sexual selection the power of and the problems of racial and sexual selection the power of and the problems of racial and sexual difference and the ecological

problems that arose directly from Darwin's theory of evolution America's major narratives of human life and love and will be appreciated by literary scholars and readers interested in Darwinism and culture *Decoding Life: Tools and Techniques in Chemical Biology* Dr. Ruchita Tripathi, 2025-01-30 Molecular Biology Nancy Lynn Craig, 2010-08-19 Molecular Biology Principles of Genome Function offers a fresh distinctive approach to the teaching of molecular biology With its focus on key principles its emphasis on the commonalities that exist between the three kingdoms of life and its integrated approach throughout it is the perfect companion to any molecular biology course

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