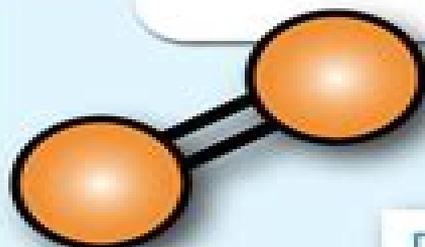


Chemistry of Life

BUNDLE



Organic compounds
Living things are made up of organic compounds (also known as macromolecules). These always have carbon-hydrogen bonds. Carbon makes up the backbone, due to it being a relatively stable atom because it can bond to lots of other atoms.

Functional groups
Functional groups are chemical patterns/groups that are added to hydrocarbons to give the macromolecule particular properties that allow it to have a certain function. They are often R-groups. Here are 7 types:

Amino	Phosphate
$-NH_2$	$-PO_4$
$R-N$	$R-O-P$

Bonds & molecules
A bond is a linking attraction between two or more atoms, ions or molecules. It can only be broken by chemical reactions. When two or more atoms bond, they form a molecule. This can be atoms of the same element, or different atoms to form a compound.

Diatomic molecules
A molecule of oxygen, O_2

Triatomic molecules
A molecule of carbon dioxide, CO_2

Diatomic molecules
A molecule of oxygen, O_2

Chemistry of Life
BASIC CHEMISTRY REVIEW

atoms and life
All living things are made of atoms. An atom is the smallest part of an element. Many different types of atoms exist and they are arranged in the Periodic table of elements. Atoms are made up of subatomic particles.

Label the structure of this oxygen atom

Electron shell, Electron, Neutron, Proton, Nucleus

	Proton	Neutron	Electron
Charge	+1	0	-1
Mass	1	1	1/1836

How many electrons are in the first shell? 2
How many electrons are in the outer shell? 6
What do we call electrons in the outer shell? valence electrons

mixtures
A mixture is a mix of 2 or more different types of atoms that are not bonded together. They can be separated by physical means.

compounds
A compound is made of 2 or more different types of atoms that are bonded together. They are held together by chemical bonds.

elements
An element is a substance made of one type of atom. It can be broken down into atoms.

CHEMISTRY OF LIFE
Basic Chemistry Review

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Basic Chemistry Of Life

Yi-Tong Ma



Basic Chemistry Of Life:

Basic Chemistry of Life Milton Toporek, 1968 **Lavoisier and the Chemistry of Life** Frederic Lawrence Holmes, 1985 Drawing on Lavoisier's daily laboratory records unpublished notes and successive drafts of articles Holmes explores the interaction between this creative scientist's theories and practice the experimental problems he encountered and his response to them the apparently intuitive understanding that guided his choice of experiments and the gradual refinement of his hypotheses This thorough and comprehensive exposition of Lavoisier's scientific style forms the basis for general reflections on the nature of creative scientific imagination that will interest historians of science and biology philosophers of science cognitive psychologists and all who are intrigued by the drama of pioneering scientific discovery

Linus Pauling and the Chemistry of Life Thomas Hager, 1998 Linus Pauling was the most important chemist and arguably the most important American scientist of the 20th century From his description of the chemical bond to his discovery of the cause of sickle cell anemia and his groundbreaking work with vitamin C his work stretched the boundaries of chemistry physics biology immunology and more Acclaimed science writer Tom Hager brings Pauling's wide range of scientific accomplishments vividly to life while also shedding light on Pauling's activities outside the scientific realm He shows how Pauling used his popularity to advance political causes particularly his opposition to the spread of nuclear weapons during the 1950s Despite the troubles his political activism caused him he remained unmoved in his dedication to making the world a safer place His perseverance was rewarded with a Nobel Peace Prize in 1962 which along with his 1954 Nobel Prize in Chemistry made him the only person in history to win two unshared Nobels Oxford Portraits in Science is an on going series of scientific biographies for young adults Written by top scholars and writers each biography examines the personality of its subject as well as the thought process leading to his or her discoveries These illustrated biographies combine accessible technical information with compelling personal stories to portray the scientists whose work has shaped our understanding of the natural world

Chemistry of the Climate System Detlev Möller, 2025-01-27 Climate change is a major challenge facing modern society Chemistry of the Climate System provides a physicochemical understanding of atmospheric processes The chemical substances and reactions found in the earth's atmosphere are presented along with their influence on the global climate system evaluating the effects of changing air compositions and possibilities for interference with these processes through the use of chemistry

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