

# Unit 1: Chemistry of Life

## Elements

- **Elements:** are substances that cannot be broken down into simpler substances by chemical means.
- Oxygen (O), carbon (C), hydrogen (H), and nitrogen (N).
- These four elements are used to build biological molecules, such as carbohydrates, proteins, lipids, and nucleic acids. They are also used to form storage compounds and cells in all organisms.
- Some elements are known as **trace elements** because they are required by an organism only in very small quantities. They include iron (Fe), iodine (I), and copper (Cu).
- Other elements are present but in smaller quantities.

## Subatomic Particles

- **Atoms** are the unit of life and are the building blocks of the physical world.
  - Protons are positively charged (+) particles
  - Neutrons are uncharged particles.
  - Electrons are negatively charged (–) particles
- Some atoms have the same number of protons but differ in the number of neutrons in the nucleus. These are called isotopes.

## Compounds

- Consists of two or more elements
- The atoms of a compound are held together by chemical bonds, which may be ionic bonds, covalent bonds, or hydrogen bonds.
- An **ionic bond** is formed between two atoms when one or more electrons are transferred from one atom to the other.
- The charged forms of the atoms are called ions.
- A **covalent bond** is formed when electrons are shared between atoms. If the electrons are shared equally between the atoms, the bond is called non-polar covalent. If the electrons are shared unequally, the bond is called polar covalent.

## Water: The Versatile Molecule

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**American Universities and Colleges** Praeger Publishers,2010-04-16 For well over a half century American Universities and Colleges has been the most comprehensive and highly respected directory of four year institutions of higher education in the United States A two volume set that Choice magazine hailed as a most important resource in its November 2006 issue this revised edition features the most up to date statistical data available to guide students in making a smart yet practical decision in choosing the university or college of their dreams In addition the set serves as an indispensable reference source for parents college advisors educators and public academic and high school librarians These two volumes provide extensive information on 1 900 institutions of higher education including all accredited colleges and universities that offer at least the baccalaureate degree This essential resource offers pertinent statistical data on such topics as tuition room and board admission requirements financial aid enrollments student life library holdings accelerated and study abroad programs departments and teaching staff buildings and grounds and degrees conferred Volume two of the set provides four indexes including an institutional Index a subject accreditation index a levels of degrees offered index and a tabular index of summary data by state These helpful indexes allow readers to find information easily and to make comparisons among institutions effectively Also contained within the text are charts and tables that provide easy access to comparative data on relevant topics      **New England Journal of Education** ,1878      Barron's Profiles of American Colleges ,1985      *New England Journal of Education* Thomas Williams Bicknell,Albert Edward Winship,Anson Wood Belding,1878

**Selected Water Resources Abstracts** ,1991      **Private Secondary Schools** Peterson's,2011-05-01 Peterson s Private Secondary Schools is everything parents need to find the right private secondary school for their child This valuable resource allows students and parents to compare and select from more than 1 500 schools in the U S and Canada and around the world Schools featured include independent day schools special needs schools and boarding schools including junior boarding schools for middle school students Helpful information listed for each of these schools include school s area of specialization setting affiliation accreditation tuition financial aid student body faculty academic programs social life admission information contacts and more Also includes helpful articles on the merits of private education planning a successful school search searching for private schools online finding the perfect match paying for a private education tips for taking the necessary

standardized tests semester programs and understanding the private schools admission application form and process

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Television Program Master Index Charles V. Dintrone,2014-02-01 This work indexes books dissertations and journal articles that mention television shows Memoirs autobiographies biographies and some popular works meant for fans are also indexed The major focus is on service to researchers in the history of television Listings are keyed to an annotated bibliography Appendices include a list of websites an index of groups or classes of people on television and a list of programs by genre Changes from the second edition include more than 300 new shows airing on a wider variety of networks 2000 plus references more than double the second edition and a large increase in scholarly articles The book provides access to materials on almost 2300 shows including groundbreaking ones like All in the Family almost 200 entries cult favorites like Buffy The Vampire Slayer 200 plus entries and a classic franchise Star Trek more than 400 entries for all the shows The shows covered range from the late 1940s to 2010 The Walking Dead References range from 1956 to 2013      American Universities and Colleges ,1987      **Science Education in Canada: Policies, practices & perceptions** F. Michael Connelly,Robert Kirby Crocker,Heidi Kass,1985      Complete Guide to American Colleges and Universities ,1983

**Congressional Record** United States. Congress,1972 The Congressional Record is the official record of the proceedings and debates of the United States Congress It is published daily when Congress is in session The Congressional Record began publication in 1873 Debates for sessions prior to 1873 are recorded in The Debates and Proceedings in the Congress of the United States 1789 1824 the Register of Debates in Congress 1824 1837 and the Congressional Globe 1833 1873

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web a bass recorder is a wind instrument in f 3 that belongs to the family of recorders the bass recorder plays an octave lower than the alto or treble recorder in the recorder family it stands in between the tenor recorder and c great bass or quart bass recorder

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web the table in this section shows the standard names of modern recorders in f and c and their respective ranges music composed after the modern revival of the recorder most frequently uses soprano alto tenor and bass recorders although sopranino and great bass are also fairly common

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