

Unit I. Review of Basic Chemical Concepts

The Science of Chemistry

Chemistry is the science that studies the nature, composition, properties, structure and changes of matter including the energy changes as matter undergoes any change in composition, properties and structure. It has many branches and some of the important branches are:

1. **Inorganic Chemistry** deals with the chemistry of all elements and their compounds except those of carbon.
2. **Organic Chemistry** deals with the chemistry of carbon and its many compounds.
3. **Analytical Chemistry** deals with detection, identification, and quantitative determination of the composition of matter; includes wet and instrumental qualitative and quantitative analysis.
4. **Physical Chemistry** deals with the laws and theories governing chemical phenomena and includes the fields of thermodynamics, chemical kinetics and quantum chemistry.
5. **Biochemistry** deals with the study of chemical substances such as carbohydrates, proteins, lipids, and nucleic acids and chemical phenomena occurring in living systems.
6. **Environmental Chemistry** deals with the study of all natural and man-made substances in the environment that affect the proper functioning of the living organisms, including the study of pollutants and contaminants.
7. **Natural Products Chemistry** deals with the study of the nature and function of secondary metabolites of living organisms.
8. **Nuclear Chemistry** deals with the structure of the nucleus and how it is used to produce massive amounts of energy.
9. **Industrial Chemistry** deals with the application of chemical principles in technology, including mass production of specific goods and substances.
10. **Forensic Chemistry** deals with the application of chemical analysis principles in elucidating how a crime is committed.

Why is chemistry a science?

Chemistry is a science because it is a body of knowledge or facts that are methodically acquired and systematically arranged to form a unified coherent concept or thought. The method used to gather the information or facts is called **scientific method**.

Arranged by Carl Michael Y. Labog

The scientific method is in reality a way of life. It is basically a problem-solving method consisting of the following steps:

Observation. This is used in gathering information by use of the five senses (sight, smell, touch, hearing and taste). Any information derived from the senses is called an observation. **Problem Identification.** This identifies the problem based on the set of observations made. **Formulation of Hypothesis.** This provides a tentative solution or explanation of a problem, called a hypothesis.

Organic Chemistry Laboratory Quiz Exam

Michael Brown



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