

One page note

MAK ACADEMY

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Chapter 1: NATURE OF SCIENCE IN CHEMISTRY

CHEMISTRY:

Chemistry is defined as the science that investigates the materials of the universe and the changes that the materials undergo.

Branches of Chem.

1. Organic CHEMISTRY:

Deals with the study of organic compounds and their derivatives.

2. Inorganic Chemistry:

It deals with element and compounds except organic compounds.

3. Physical Chemistry:

deals with laws and theories to understand structure and changes of matter.

4. Analytical Chemistry:

deals with methods and instruments for determining the composition of and properties of matter.

5. Biochemistry:

deals with physical and chemical changes that occur in living organisms.

6. Environmental chemistry:

deals with study of chemical and toxic substances that pollute the environment.

7. Industrial Chemistry:

deals with large-scale production of chemical substances.

8. Medicinal Chemistry:

It deals with the study of the interaction between drugs and biological targets as well as development of new medicinal agents.

9. Polymer chemistry:

It focuses on the study of polymer, their types, properties, uses, importance and types of polymerization.

10. Geochemistry:

It deals with study of chemical composition, distribution and transformation of elements and compounds in Earth's crust.

11. Nuclear Chemistry:

It deals with the changes that occur in atomic nuclei.

12. Astrochemistry:

It deals with the study of chemical processes and reactions that occur in astronomical environments.

Science

Science is the systematic study to explore the natural world. Science intends to recognize the fundamental principles and processes of the natural world.

Technology

The integration of scientific knowledge for human needs is known as technology. This integration provides a pathway to the development of systems, techniques and tools.

Engineering

Engineering is the application of scientific principles to construct and improve systems, structures and machines.

Fun Facts 😊:

- Everything is made of atoms.
- Water is great solvent
- Fire needs oxygen to burn.
- Helium makes your voice high

CHEMISTRY IN COOKING 😊:

When you cook, you're doing chemistry! Heat changes the structure of food, like bread rises or when a steak turns brown.

Chemistry impacts everything in the world around us