

CLASS –IX

Chemistry

Date:-28/04/2020

Class 9 MATTERS IN OUR SURROUNDINGS

Chemistry is the study of substance, their composition, structure and transformation. These aspects can be understood in terms of basic constituents of matter: atoms and molecules. That's why chemistry is called science of atoms and molecules.

- Chemistry involves observing changes in substances.

MATTER

Matter may be defined as something which has mass and occupies space. Example-table, desk, chair, plants etc.

- Friendships, love, affections, love, manners etc are not matters these things do not occupy space.
- Matter is made up of particles(atoms and molecules)
- Matter is known as Parmanu according to Indian sage.

SUBSTANCES

- A substance is a matter which has a specific composition and specific properties.
- Example--- every pure element like iron, copper, bronze, zinc etc. NaCl, CO₂, H₂O etc are substances because their composition is specific
- Salty water, milk, foam, etc are not substances because their compositions are not specific.

PROPERTIES OF MATTER

We recognise each and everything with their colours, looks etc. Like clothes and books are recognised by their hardness, colour etc. This is known as their properties.

TWO TYPES OF PROPERTIES

1. PHYSICAL PROPERTIES --All the properties of a substance which can be determined without changing its composition.. e.g-density, hardness, conductivity, smell, melting point etc.
2. CHEMICAL PROPERTIES---All those properties of a substance which can be determined only when it undergoes a change in its chemical composition are called chemical properties. e.g, acidic nature, basic nature, reactivity,, etc.

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