

NEW ERA SENIOR SECONDARY SCHOOL NIZAMPURA, VADODARA

Yearly syllabus planning 2024-2025.

Class 9 Chemistry

| MONT H | NO. OF DAY S | CHAPTER | CONTENT |
|-----------|-----------------------|----------------------------|---|
| April | 20 | Matter in our surroundings | Particle nature of matter, how small are these particles of matter? Particle Motion, inter particle attraction, effects of temperature on particle motion. |
| May | 6 | | States of matter, The solid state, The liquid state, The gaseous state, Distinction among the three states of matter. |
| June | 16 | Matter in our surroundings | Can matter change its state? Effect of change of temperature, Effect of change of pressure |
| July | 23 | Is matter around us pure? | Evaporation, Factors affecting evaporation, Introduction, Pure substances, Types of pure substances, Elements, Types of Elements based on physical states, Types of elements based on characteristics, Metals, Non-Metals, Compounds or chemical compounds, Types of compounds, Characteristics of compounds. |
| August | 24 | Is matter around us pure? | Impure substances or mixture, Types of mixture, Homogenous mixture, Heterogenous mixture, Types of solution, properties of true solution colloidal solution and suspension, Concentration of a solution, Effect of temperature on the solubility of salt in water. |
| Sept | 22 | Is matter around us pure? | Difference between homogeneous and heterogeneous, Separating the constituents of a mixture (Separation technique) Physical and Chemical change. |
| October | 21 | Atoms and Molecules | Introduction, Laws of chemical combination, Laws of constant proportion, Dalton's Atomic theory, what is an Atom? How big are Atoms? Atomic symbols, Molecular mass, Formula unit mass. |
| Nov | 09 | Atoms and Molecules | Mole concept |

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| Dec | 23 | Atoms and Molecules | Practice questions on mole concept (To find out the number of molecules, atoms, ions, protons, neutrons, and electrons. |
| January | 25 | Structure of Atom | Introduction, Charged particles in matter, Discovery of Electrons, Protons and Neutrons, Characteristics of Cathode rays and Anode rays, Structure of Atom, Thomson's model of an Atom, Rutherford's model of an Atom, Bohr's model of an Atom, Atomic number(Z), Mass number(A), Electronic configuration of Atoms and ions, Chemical properties of elements, Valency of elements. |
| Feb | 23 | Structure of Atom | Isotopes and Isobars. Revision, |
| March | 12 | Correction and planning for next year | |
| Total | 223 | | |