Jindal Vidya Mandir, JSW Hillside Township

Syllabus Bifurcation (2025-26)

Subject: Chemistry **Class :9**

Term -1

Sl No.	Month	WD	ID	No. of Periods	Chapter/Units	Learning Objectives	Activities	Assessment Methods	Portion for WT/PT/Term/AE
1	April	13	13	4	Ch-1Matter in our surroundings	Define the scientific term of Matter, and classify the matter physically as Solids, liquids & gases. * Provide scientific explanation for diffusion in examples of gases and liquids witnessed in real life. *Describe the physical characteristic properties of particles of matter. *Explain the Interconversion of states of matter. *Conversion of scale of Celsius to Kelvin. *Categorize the effects of temperature and pressure on state of matter. *Differentiate between vaporization and evaporation with examples. *Identify the fourth and fifth state of matter	(Estimating size of particles, compressibility, diffusion of solid, liquid and gas)	Quiz or oral test	
2	June	20	20	6	Ch-2 Is Matter Around Us Pure	*Identify mixtures from your surroundings based on their characteristic properties. *Differentiate between homogeneous and heterogeneous mixtures. *Classify homogenous and heterogeneous mixtures into solutions, suspensions and colloids. *Determine the effect of concentration of solution on its physical properties.	(Practical on showing different mixture and elements and compounds and	solving puzzle game /written test	WT 4(27-6-25) Portion -Ch -1

						*Identify different processes to separate mixtures and apply them to separate various mixtures. *Suggest procedures to separate mixtures of solids and liquids. *State the underlying principle behind centrifugation process and locate its use.	comparing their physical and chemical properties).		
3	July	25	20	6	Ch-3 Atoms And Molecules	*Apply the Law of Conservation of Mass to determine the mass of elements in a mixture. *Apply the Law of Constant Proportions to estimate the amount of elements required in a chemical substance and identify postulates of Dalton's atomic theory. * To understand and apply scientific notation to represent and manipulate the size, mass, and quantities of atoms and their subatomic particles. *Correlate the fact of invisibility of atoms to the size of atoms. *List atomic symbols of commonly known elements as per IUPAC. *Determine the number of atoms present in an element or Ion on the basis of their atomicity. *Apply the law of constant proportions to calculate the mass ratio of atoms in a molecule.	(Activity on law of conservation of mass, reaction between NaOH and HCl) and weighing the weight of the container before and after the reaction	Class test/ group discussion /written test/seminar by students	Periodic test-1 (Ch-1, 2,3)
4	August	20	20	6	Ch-3 Atoms And Molecules (Cont..). & Revision for term-1	*Differentiate between ionic compounds and covalent compounds. *Calculate molecular mass for covalent compounds and formula unit mass for ionic compounds	(SEA-1: Periodic table chart preparation)	Quiz competition/puzzle game /pen paper test	WT-11(13-8-25) Portion -Ch-3
5	September	20	12	4	Revision for term-1				Term -1(Portion -Ch -1,2,3)
Term 2									

6	October	19	19	6	Ch-4 Structure of the atom	*Explain the structure of the Thomson's model of the atom , Rutherford model of atom, and Bohr's model of the atom. *Finding the valency of different elements. *calculating the number of electrons in different shells of the atom. *Write the scientific notation of the atom. *Differentiate between isotopes and isobars. *List the drawbacks of Rutherford model and draw the conclusion from the postulate of Bohr model. *Scientific analysis about the microscopic level of the atomic structure	Activity: Finding valency of metals with the help of periodic table (SEA-2:Different Models on Atoms)	Written class test/ quiz/seminar by students	
7	November	22	22	7	Revision for annual exam				WT-4(6-11-25) Ch-4
8	December	26	26	9	Revision for annual exam				Periodic test 2-Portion-Ch-4
9	January	22	17	6	Revision for annual exam				WT-11(24-1-25) portion Ch-1
10	February	23	22	7	Revision for annual exam				
11	March				Annual examination				Portion for Annual exam - Ch-1, 2,3,4

Sub Teacher Sub I/C VP Principal