



SANT NANDLAL SMRITI VIDYA MANDIR; GHATSILA

YEARLY SYLLABUS - STD. IX

SESSION – 2025-26

SUBJECT- CHEMISTRY



Month	Number Of Working Days	Week	Topics to be taught	Activities	Learning Outcomes	Values
April 2023	21		Ch Matters in our Surroundings	Lab Activity	Students will be able to define matter	Mutual help
		1 st	Nature and behavior, Definition of matter- solid ,liquid and gas	- Important lab equipments	Physical properties of matter	Resource management
		2 nd	General properties of solids .shapes, volume, density, compressibility,	Important lab equipments	Characteristics of particles of matter	Awareness responsibility
		3 rd	kinetic energy, diffusion .	Important lab equipments		Cooperation
		4 th	Revision +Periodic Test	Revision		Coordination
May 2023	09		General properties of liquids	Lab activity		
		1 st	Contd.. General properties of liquids	To prepare a true solution of common salt in water , a colloidal solution of starch in water , a suspension of chalk powder in water.		Unity in staying together
		2 nd	General characteristics of gaseous state of matter			
June 2023	11		Comparative study of Properties of three states of matters			
		3 rd	Can matter change its state Evaporation, melting , freezing ,condensation , sublimation	Lab activity – revision Distinguish different types of solution on the basis of	Students will be able to identify examples of evaporation	



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				transparency, filtration and stability.	Explain the relationship between temperature, surface area, wind speed and the rate of evaporation.	
		4 th	Revision			
July 2023	26		Ch Is Matter Around Us Pure	Lab activity	Students will be able to identify the given substance as a mixture or compound	Importance of purity
		1 st	Introduction Of The Chapter Matters are pure and impure Elements and compounds		Characteristics of compound and mixture	Sharing of knowledge
		2 nd	Mixture – homogeneous and heterogeneous mixture.	To carry out the chemical reaction between iron nail and copper sulphate solution and identify the type of chemical reaction.		Critical observation
		3 rd	Solution – suspension, colloidal solution.	To study the reaction between sodium sulphate and barium chloride in their aqueous solution.		
		4 th	Revision + Periodic Test-2			
August 2023	24					
		1 st	Properties of suspension			
		2 nd	Comparison of properties of suspension and colloidal solution			Cooperation consciousness
		3 rd	Physical and chemical change			Changes are inevitable adaptability



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		4 th	Revision And Monthly Test			
September 2023	21		Revision And Half Yearly Exam			
October 2023	18		Ch Atoms and Molecules			
		2 nd	Introduction Of The Chapter Definition of atoms and molecules Sub-particles of an atom		Students will be able to understand the Laws of definite proportion Laws of conservation of mass	Awareness Consciousness Cooperation
		4 th &5 th	Laws of chemical combination Laws of constant proportions Postulates of this theory	To verify the law of conservation of mass in a chemical reaction.	.	Individualit
			Laws of conservation of mass Related Numerical problems	To verify the law of conservation of mass in a chemical reaction.		Matters are immortal
			Revision			Conservation interdependence
November 2023	23		Atoms and Molecules-contd.		Daltons atomic theory	Values of new ideas and thoughts
		1 st	Laws of chemical combination CONTD... Law of conservation of mass Related Numerical problems	Burning of Magnesium ribbon in presence of oxygen.	Postulates of dalton theory	
		3 rd	Molecules and molecules of Elements Ions, Chemical formulae	Burning of Magnesium ribbon in presence of oxygen and identify the acidic or basic character of the solution.	Calculate the molecular mass and formula unit mass	
		4 th	Molecular Mass and Formula Unit Mass.			
		5 th	Revision And PerodicTest-3			



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December 2023	19		Ch Structure Of The Atoms.			
		1 st	Charged Particles In Matter - Electron protons and neutrons	To determine the melting point of ice.	Students will be able to understand Atom is electrically neutral	Time management Awareness
		2 nd	Thomson's Model Of An Atom Rutherford's model of an atom- Observations , conclusions and drawbacks	To determine the melting point of ice	Thomsons atomic structure and it's drawbacks Rutherford atomic structure	Integrity Sense of awareness about it importance of subatomic particles.
		3 rd	Revision			
January 2024	22		Structure Of The Atoms- contd.	Lab activity		
		1 st	Bohr's model of atom Electron distribution in different shells	revision	Idea of electronic shells ,electronic configuration Valency of an atom	
		2 nd	Composition of Atoms of elements in various shells, Valency			
		3 rd	Atomic Number, Mass number, Isotopes, isobars.		Mass number Differentiation between isotopes and isobars	
		4 th	Revision And Monthly Test			
February 2024	22		Revision And Annual Exam			

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