



# SANT NANDLAL SMRITI VIDYA MANDIR, GHATSILA

## YEARLY SYLLABUS - STD.X

SESSION - 2025-2026

SUBJECT - CHEMISTRY



MONTH	Number Of Working Days	TOPIC to be taught	ACTIVITY	LEARNING OUTCOMES	VALUES
APRIL 2023	21	<b>UNIT -1 Chemical reaction and equation</b> 1.Chemical equations . 2. Balancing of equations .			
		Types of reactions 1. Combination Reactions 2. Decomposition reactions	To perform following reactions 1. combination 2. Decomposition	Students will know about Chemical reaction and how to balance the equations. Identify and define chemical reaction As combination reaction Decomposition reaction	Importance of equality. Balancing in universe is important. Cooperation Coordination
		3.types of decomposition reaction  1 <sup>st</sup> Periodic Test and revision	Same practical continued		Patience
MAY 2023	9	Types of reactions continued			
		Holiday homework summer vacation starts.			
JUNE 2023	11	4. Redox reaction 5.displacement reaction 6.double displacement reaction	Displacement and double displacement reaction in lab	Students will have idea about Displacement reactions are based on reactivity series Identify the position and reactivities of metals, hydrogen in reactivity series. Double displacement reactions typically result in the formation of product that is precipitate.	Coordination for a common cause Survival of the fittest
JULY 2023	26	<b>Ch Acids bases and salts</b> Definitions,Properties, Examples and Uses. Concept of pH scale	To find the P <sup>H</sup> of different chemicals and food stuff	Students will know All liquids have an ionic make up that decides whether they are an acid or base	



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			To study the properties of acids with litmus paper zinc metal and sodium carbonate.	Acid and base play a role in everything from digestion of the food to the function of the medicines we take in balancing pH.	
		Importance of pH in everyday life , Preparation and uses of Sodium Hydroxide.	To study the properties of bases by reaction with litmus ,zinc metal, sodium carbonate	Students can demonstrate the pH value upon completion of learning experience.	Being same in all situations
		Preparation and uses of Bleaching powder		Students will know about the preparation properties and uses of bleaching powder	Importance of hygiene and cleanliness
		Revision and 2 <sup>nd</sup> Periodic Test			
AUGUST 2023	24	Preparation and uses of baking soda washing soda and plaster of paris <b>Ch Metals and non metals</b> Properties of metals and non metals, reactivity series.	To observe the action of zn ,Fe ,Cu and Al with following salts solution $ZnSO_4$ , $CuSO_4$ and $FeSO_4$	Students will be able to answer about baking soda,washing soda and plaster of paris. Students will able to answer and explain about the differences between metals and non metals with reference to their physical and chemical properties.	Creativity Value of innovating new things
		Formation and properties of ionic compound,		Students will be able to know about formation of ionic compounds their properties and differences between ionic compounds and covalent compounds.	Strength of unity and patience Struggle for survival
		Basic metallurgical processes, Corrosion and it's prevention.		Students will know about the	Curiosity

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				Steps involved in the extraction of metals from their respective ores.	
		Revision			
SEPTEMBER 2023	21	Revision			
		Half Yearly Exam			
		Examination continue			
		Basic metallurgical processes continued			
OCTOBER 2023	18	<b>Ch Carbon and its compounds</b> Covalent bonding in carbon compounds, Versatile nature of carbon.  Homologous series, Nomenclature of carbon compounds containing functional groups.		Students will know about carbon it's position in periodic table, it's versatile nature.  Students will have the idea of hydrocarbons and how carbon atoms bond to one another to form hydrocarbons, homologous series and naming the chemical compounds.	Sharing Caring Versatility  Awareness
		Difference between saturated hydrocarbons and unsaturated hydrocarbons.	To study the properties of ethanoic acid	Students will have idea to differentiate between saturated and unsaturated hydrocarbons	Observation Consciousness Curiosity
		Revision			
NOVEMBER 2023	23	Chemical properties of carbon compounds... Ethanol and ethanoic acid and its properties and use only .	To study saponification reaction	Students will be able to explain the chemical properties of some carbon compounds like ethanoic acid, ethanol and their uses.	Importance of uniqueness Responsibility



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		soap and detergent	To study cleaning capacity of soaps.	Students will have idea that Soaps are the sodium salts of carboxylic acid in long chains.	Team work Hygiene and cleanliness Consciousness Concern for environment
		Definition with example Structure of soap		Sodium salts of long chains benzene sulphonic acids are detergents.	
		Revision and 3 <sup>rd</sup> Periodic Test			
DECEMBER 2023	19	Cleansing action of soap Scum formation with hard water		Both soaps and detergents have a critical chemical properties to show cleansing action and leather formation with hard water soft water.	Responsibility Concern for environment Cleanliness and hygiene Awareness
		Difference between soap and detergent		Students will now able to differentiate between biodegradable soaps and non biodegradable detergents.	Concern for environment
		Revision and holiday homework			
		Winter vacation			
JANUARY 2024		Revision and Pre Board Exam			
		Revision and Pre Board Exam Revision			
FEBURARY 2024	22	Doubt clearance and revision and solving sample papers  Final exam .			

1. Sumita Bhattacharya
2. Atanu Mukherjee
3. Indu Kumari
4. Anup Kumar Patnaik

Principal



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