



RUBY PARK PUBLIC SCHOOL

SYLLABUS FOR THE ACADEMIC SESSION 2022-23

Subject - Chemistry

CLASS - X

Month	Unit	Topic	Sub topic	Practical Experiment
April	1	Chemical Reactions and Equations	<p>Chemical reaction – definition, characteristics of chemical reaction with examples.</p> <p>Writing a chemical equation, skeletal equation, balanced chemical equation, balancing of chemical equations.</p> <p>Types of chemical reactions – combination, exothermic and endothermic reactions, decomposition, displacement, double displacement, oxidation and reduction.</p> <p>Corrosion, rancidity.</p>	To perform and observe different types of chemical reactions.
May	2	Acids, Bases and Salts	<p>Introduction to acids, bases, indicators.</p> <p>Understanding the chemical properties of acids and bases. What do all acids and all bases have in common?</p> <p>Dilution of acids and bases. Strength of acids and basic solutions.</p>	To study the properties of acids and bases.
Periodic Test - 1				
June	2	Acids, Bases and Salts	<p>Importance of pH in everyday life.</p> <p>Salts – family of salts, pH of salts, chemicals from common salt, chlor-alkali process, bleaching powder, baking soda, washing soda, water of crystallization in salts, Plaster of Paris.</p>	To find the pH of sample solutions by using pH paper/universal indicator.
July	3	Metals and Non-metals	<p>Introduction, physical properties of metals and non-metals.</p> <p>Chemical properties of metals</p>	To study the reactivity of metals using the

			(reactions), the reactivity series. How do metals and non-metals react? Properties of ionic compounds. Occurrence of metals, extraction of metals, refining of metals. Corrosion of metals and its prevention, alloys.	metals and their salt solutions.
	4	Carbon and its Compounds	Importance of carbon, catenation, bonding in carbon – the covalent bond, versatile nature of carbon. Saturated and Unsaturated Carbon Compounds, chains, branches and rings present in carbon compounds.	
August	4	Carbon and its Compounds	Homologous series, functional groups, hydrocarbons and isomerism. Nomenclature of Carbon Compounds. Chemical properties of carbon compound (reactions). Some important carbon compounds – Ethanol and Ethanoic acid. Soaps and detergents.	To study the properties of acetic acid. To study the comparative cleaning capacity of a sample of soap in soft and hard water.
	5	Sources of Energy	Introduction, good source of energy, characteristics of good fuel and good energy, conventional sources of energy- fossil fuels, non-conventional sources of energy-biomass, biogas, tidal energy, wave energy, ocean thermal energy, geothermal energy. Environmental consequences of using exhaustible resources.	
September	Revision & Periodic Test - 2			
	6	Periodic Classification of Elements	Making order out of chaos – early attempts at the classification of elements – Dobereiner's Triads.	
October	6	Periodic Classification of Elements	Newlands' Law of Octaves, Mendeleev's Periodic Table – achievements and limitations, The Modern Periodic Table, position of elements in the Modern Periodic Table.	
November	Periodic Test - 3			
	6	Periodic Classification of Elements	Trends in the Modern Periodic Table.	
December	Revision & Practice Test			
January	Pre Board Examination (Entire syllabus)			

