

CHEMISTRY

MONTH	UNIT	TOPIC	SUB TOPIC	PRACTICALS
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.</p> <p>Types of chemical reactions (continued) – decomposition, displacement, double displacement, oxidation and reduction.</p> <p>Corrosion, rancidity</p>	<p>To perform and observe different types of chemical reactions.</p>
May	2	Acids, Bases and Salts	<p>Introduction to acids, bases, indicators.</p> <p>Understanding the chemical properties of acids and bases.</p> <p>What do all acids and all bases have in common?</p> <p>Dilution of acids and bases.</p> <p>Strength of acids and basic solutions.</p>	<p>To study the properties of acids and bases.</p>
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>	<p>To find the pH of sample solutions by using pH paper/ universal indicator.</p>
Periodic Test- I				
July	3	Metals and Non-metals	<p>Introduction, physical properties of metals and non-metals.</p> <p>Chemical properties of metals (reactions), the reactivity series.</p> <p>How do metals and non-metals react?</p> <p>Properties of ionic compounds.</p> <p>Occurrence of metals, extraction of metals, refining of metals.</p> <p>Corrosion of metals and its prevention, alloys.</p>	<p>To study the reactivity of metals using the metals and their salt solutions.</p>

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Month	Unit	Topic	Sub Topic	Practicals
July	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			
October	10	Periodic Classification of Elements	Making order out of chaos – early attempts at the classification of elements – Dobereiner's Triads, Newlands' Law of Octaves, Mendeleev's Periodic Table – achievements and limitations.	
November	11	Periodic Classification of Elements	Making order out of chaos – The Modern Periodic Table, position of elements in the Modern Periodic Table. Trends in the Modern Periodic Table.	
December	Revision & Periodic Test - 3(Entire syllabus)			
January	Pre - Board: Entire Syllabus as prescribed by CBSE			