

AIR FORCE SCHOOL BAMRAULI
ANNUAL SPLIT-UP OF SYLLABUS

Academic session: 2024-2025

CLASS : X

SUBJECT : CHEMISTRY

BOOK : SCIENCE FOR CLASS X (NCERT)

MONTH NAME	CHAPTER/ UNIT	TOPIC/ SUBTOPIC	PERIODS	ACTIVITY
APRIL-MAY	Chapter-1 Chemical reactions & Chemical equation:	Chemical reactions, Chemical equation, Balanced chemical equation, Implication On of a balanced chemical equation, types of chemical reactions: Combination, decomposition, Displacement, Double Displacement or precipitation Endothermic.and Exothermic reactions, Oxidation and reduction.	16	Observation and Identification of Chemical Reactions: Performing and observing the following reactions and classifying them into: a) Combination reaction b) Decomposition reaction c) Displacement reaction d) Double displacement reaction (i) Action of water on quicklime (ii) Action of heat on ferrous sulfate crystals (iii) Iron nails kept in copper sulfate solution (iv) Reaction between sodium sulfate and barium chloride solution Writing Chemical Equations
CLASS TEST FROM 22 APRIL TO 5 MAY SYLLABUS : CH 1				
JUNE-JULY	Chapter-2- Chapter: Acids, bases and salts :	Their definitions in terms of furnishing of H ⁺ and OH ⁻ ions, General properties, examples and uses, neutralization, concept of pH scale(Definition relating to logarithm not required) Importance of pH in everyday life; preparation and uses of Sodium Hydroxide, Bleaching powder, Baking soda, Washing soda and Plaster of Paris	8+4	Studying the properties of acids and bases (HCl & NaOH) by their reaction with: a)Litmus solution (Blue/ Red) (b)Zinc metal (c)Solid sodium carbonate Finding the pH of the different samples by using pH paper / universal indicator.
PT 1 FROM 1 TO 8 JULY, SYLLABUS: CH 1 & 2				
JULY- AUGUST	Chapter-3 Chapter: Metals and Non-metals:	Properties of metals and non-metals; Reactivity series; Formation and properties of ionic compounds. Basic metal	4+8	Observing the action of Zn, Fe, Cu and Al, metals on the following salt solutions a)ZnSO ₄ aq

		surgical processes; Corrosion and its prevention.		b)FeSO ₄ aq c)CuSO ₄ aq Al ₂ (SO ₄) ₃ aq Arrange Zn, Fe, Cu and Al, metals in decreasing order of reactivity based on the above result
AUGUST- SEPTEMBER	Chapter-4: Carbon compounds:	Covalent bonding in carbon compounds. Versatile nature of Carbon. Homologous series. Nomenclature of carbon compounds containing functional groups (halogens, alcohol, ketones, aldehydes, alkenes, and alkynes), difference between saturated hydrocarbons and unsaturated hydrocarbons Chemical properties of carbon compounds (combustion, oxidation, addition, and substitution reaction). Ethanol and Ethanoic acid(only properties and uses), Soap and Detergents	4+8	Study of the properties of acetic acid (ethanoic acid) Study of the comparative cleaning capacity of a sample of soap in soft and hard water.
HALF YEARLY FROM 17 TO 30 SEPT.			SYLLABUS : CH 1, 2, 3 & 4	
OCTUBER	COMPLETE SYLLABUS REVISION		6	
NOVEMBER	SAMPLE PAPER REVISION		6	PRACTICE
4 TO 16 NOV. PRE BOARD 1			COMPLETE SYLLABUS	
DECEMBER	SAMPLE PAPER REVISION		3	PRACTICE
9 TO 17 DEC. COMMON PRE BOARD			COMPLETE SYLLABUS	
JANUARY FEBRUARY	SAMPLE PAPER REVISION			PRACTICE