

SPLIT-UP SYLLABUS SESSION 2023-2024

CLASS-XSUB-SCIENCE (Code No. 086)

MONTH	NO.OF WORKING DAYS	DETAIL SYLLABUS	PRACTICALS
APRIL	20	Life Processes, Chemical Reactions and Equations, Light – Reflection and Refraction	1.Performing and observing the following reactions and classifying them into: A. Combination reaction B. Decomposition reaction C. Displacement reaction D. Double displacement reaction
JUNE	04	Life Processes, Chemical Reactions and Equations, Light – Reflection and Refraction	(i) Action of water on quicklime (ii) Action of heat on ferrous sulphate crystals (iii) Iron nails kept in copper sulphate solution (iv) Reaction between sodium sulphate and barium chloride solutions
JULY	24	Light – Reflection and Refraction, Human Eye and Colourful World, Life processes, Control and coordination in plants and animals, Acids, Bases and Salts	1.Determination of the focal length of i) Concave mirror ii) Convex lens by obtaining the image of a distant object. 2.Slide preparation stomata 3. Finding the pH of the following samples by using pH paper/universal indicator: (i) Dilute Hydrochloric Acid (ii) Dilute NaOH solution (iii) Dilute Ethanoic Acid solution (iv) Lemon juice (v) Water (vi) Dilute Hydrogen Carbonate solution
AUGUST	25	Control and coordination in plants and animals, Metals and Non- Metals, Human Eye and Colourful World, Electricity	1.Tracing the path of a ray of light passing through a rectangular glass slab for different angles of incidence. Measure the angle of incidence, angle of refraction, angle of emergence and interpret the result. 2.Tracing the path of the rays of light through a glass prism. 3. Experiment CO ₂ release during respiration. 4.Studying the properties of acids and bases (HCl & NaOH) on the basis of their reaction with: a) Litmus solution (Blue/Red) b) Zinc metal c) Solid sodium carbonate
SEPTEMBER	13	Our environment Electricity, Revision of HALF -YEARLY EXAM 50% Syllabus	REVISION
OCTOBER	20	Magnetic effects of electric current, Carbon and its Compounds, How Do Organism Reproduce.	1.Studying the dependence of potential difference (V) across a resistor on the current (I) passing through it and determine its resistance. Also plotting a graph between V and I. 2. Determination of the equivalent resistance of two resistors when connected in series and

			parallel. 3. Study binary fission in amoeba and budding in yeast. 4. Observing the action of Zn, Fe, Cu and Al metals on the following salt solutions: i) $ZnSO_4(aq)$ ii) $FeSO_4(aq)$ iii) $CuSO_4(aq)$ iv) $Al_2(SO_4)_3(aq)$
NOVEMBER	18	Heredity and evolution, Revision for PB -1	1. Embryo development in dicot seeds. 2. Study of the following properties of acetic acid (ethanoic acid): i) Odour ii) solubility in water iii) effect on litmus iv) reaction with Sodium Hydrogen Carbonate 3. Study of the comparative cleaning capacity of a sample of soap in soft and hard water
DECEMBER	24	Portfolio- management of natural resource, Sources of energy. Revision For PB-2	
JANUARY	24	REVISION	
FEBRUARY	16	REVISION	

50% MID TERM SYLLABUS (CLASS-X)

S.NO.	NAME OF CHAPTER
1.	Chemical Reactions and Equations
2.	Acids, Bases and Salts
3.	Life Processes
4.	Control and coordination in plants and animals
5.	Light – Reflection and Refraction
6.	Human Eye and colourful world

NOTE: List of experiments and design of question paper, as per CBSE syllabus of 2023-24