

ACADEMIC PLANNER 2023-2024 (S.D PUBLIC SCHOOL,PITAM PURA,DELHI) CLASS-X (SCIENCE)

Date/day	CONTENTS	Assignments given	EXPERIMENT/ACTIVITY
April			
1- 15 (9 days)			
Phy.	Chap-10 Light- Reflection & Refraction:Reflection of light, spherical mirrors	Intext Questions	To Determine the focal length of Concave mirror and Convex lens by obtaining the image of distant object.
Chem.	Chap-1 : Chemical Reactions & Equations	Intext Questions	
	Balancing a chemical equation		To perform & observe the following reactions & classify them into
	Types of chemical reactions - Combination reaction	ONLINE EDUCOSOFT ASSESSMENTS	(a) combination reaction
	Decomposition reaction, Displacement reaction .		(b) decomposition reaction
			(c) displacement reaction
			(d) double displacement reaction
Bio.	Chap- 6 : Life processes		
	Nutrition, Autotrophic Nutrition in plants and Heterotrophic		
	Nutrition in human beings		
April			
16 - 30 (11 days)			
Phy.	Chap-10 Light- Mirror formula , image formation, Refraction	Intext Questions	To Determine the focal length of Concave mirror and Convex lens by obtaining the image of distant object.
Chem.	Chap -1 : Chemical Reactions and Equations	Intext Questions	
	Types of chemical reactions- double displacement , precipitation.		
	Oxidation & Reduction (redox) , Application of oxidation in daily life: corrosion and rancidity	TBQ and assignment	
Bio.	Chap-6 : Life Processes	TBQs and assignment	
	Types of respiration , respiratory system,	ONLINE EDUCOSOFT ASSESSMENTS	
	transportation - structure of heart, blood vessels , lymph		
	Transportation in plants, transport of water and food , excretion in human beings and in plants		
MAY			
1- 31 (31 days)			
Phy.	Chap-10 Light- image formation by lenses	Intext Questions	To trace the path of ray of light passing through a rectangular glass slab.
Chem.	Chap -2 : Acid, Bases and Salts		
	Definitions of acids and bases, examples & uses, physical properties , indicators, strength of acids & bases	Intext Questions	To study the properties of acids & bases by reaction with: (1) Litmus solution (2) Zn metal (3) Solid sodium carbonate

Bio.	Chap-7 : Control and Coordination		
	Nervous system, reflex action, human brain, action caused by brain	TBQs and assignment	
		ONLINE EDUCOSOFT ASSESSMENTS	
MAY			
16-31 (12 Days)			
Phy.	Chap-10 Light- lens formula , power of lens	TBQs and assignment	
Chem.	Chemical properties of acids and bases, a) Reaction of acid & bases with metals, metal carbonates, metal bi-carbonates b) reaction of metallic oxide with acids & reaction of non metallic oxide with bases c) Reaction of acids and bases with each other	Intext Questions	
Bio.	Chap-7 : Control and Coordination Contd.		
	Coordination in plants, immediate response to stimulus	TBQs and assignment	
		ONLINE EDUCOSOFT ASSESSMENTS	
	SUMMER VACATIONS		
July			
1- 15 (12 days)			
Phy.	Chap-11 Human eye and colourful world: Functioning of lens in human eye, Defects of vision and their corrections	Intext Questions	To draw the images of an object formed by a convex lens when placed at various positions
Chem.	Chapter 2 : pH and its importance, chemicals from common salts- sodium hydroxide, bleaching powder, baking soda, washing soda, POP (Plaster of Paris)	TBQ and assignment	To find the pH of the following solutions using a pH paper. (1) Dil. HCl (2) Dil. NaOH solution (3) Dil. Ethanoic acid (4) Lemon juice (5) Water (6) Dil. Sodium bicarbonate
		ONLINE EDUCOSOFT ASSESSMENTS	
Bio.	Chap-7 : Control and Coordination Contd.		To show experimentally that carbondioxide is given out during respiration
	movements due to growth,		To prepare a temporary mount of a leaf peel to show stomata
July			
16 - 31 (12 days)			
Phy.	Chap-11 Human eye and colourful world : Refraction in prism ,Dispersion of light, scattering of light,Applications in daily life	TBQs and assignment	To trace the path of ray of light passing through a glass prism.
Chem.	Chap-3 Metals and Non-Metals- Physical Properties of metals and non-metals Chemical properties: Reaction of metals with air, water and acids	Intext Questions	To observe the action of Zn, Fe, Cu, Al on following salts- ZnSO ₄ , FeSO ₄ , CuSO ₄ , Al ₂ (SO ₄) ₃ And arrange the metals in order of decreasing reactivity
Bio.	Chap-7 : Control and Coordination Contd.		

	Hormones in animals	TBQs and assignment	To study a) Binary fission in amoeba, b) Budding in yeast and Hydra with the help of prepared slides
		ONLINE EDUCOSOFT ASSESSMENTS	
	U.T 1 (24 July- 2 August)		SYLLABUS- CHAPTER-1 CHEMICAL REACTIONS AND EQUATIONS, Ch 2- Acids, Bases and Salts(till topics covered) CHAPTER-6 LIFE PROCESSES CHAPTER-10 LIGHT: REFLECTION AND REFRACTION CHAPTER-11 HUMAN EYE AND COLOURFUL WORLD (TILL TOPICS COVERED)
Aug			
1- 15 (11 days)			
Phy.	Chap-12 : Electricity		
	Electric current, potential difference,	Intext Questions	
Chem.	Reaction with metal salt solution , Reactivity series, basic metallurgical processes	Intext Questions	
Bio.	Chap-8 How Do Organisms Reproduce Contd. - Variation and its importance, asexual reproduction - fission, fragmentation, regeneration, budding, vegetative propagation, spore formation ,sexual reproduction in plants and in human beings	ONLINE EDUCOSOFT ASSESSMENTS	
Aug.			
16-31 (13 days)			
Phy	Chap-12 : Electricity - circuit diagram, Ohm's law	Intext Questions	To verify Ohm's Law.
Chem.	Chap-3 Metals and Non-Metals- Reaction between metals & non metals, ionic bond and ionic compounds, Properties of ionic compounds, corrosion of metals & its prevention	TBQ and assignment	
Bio.	Chap-8 How Do Organisms Reproduce Contd.	TBQs and assignment	
	Reproductive health need and methods of family planning	ONLINE EDUCOSOFT ASSESSMENTS	
Sep			
1- 15 (11 days)			
Phy	Revision		
Chem.	Revision		
Bio.	Revision		
			REVISION and NOTE BOOK ASSESSMENT-I
Sep 16-30			
16 - 30 (12 days)	HALF YEARLY EXAMS 18 Sept- 5 Oct		
			HALF YEARLY EXAM: SEPTEMBER (SCIENCE)
			Chap-1 Chemical Reactions and Equations
			Chap-2 Acid bases and salts
			Chap-3 Metals & Non metals (till topics covered)

			Chap- 6 Life processes
			Chap-7 Control and coordination
			Chap-10 Light-Reflection and Refraction
			Chap-11 Human eye and colourful world
Oct			
1- 15 (10 days)	Chap- 9 Heredity & Evolution-Heredity, Mendel's contribution, trait expression		
Phy	Chap-12 : Electricity : Arrangement of resistance-in series & in parallel	Intext Questions	1) To determine the equivalent resistance of two resistances when connected in parallel. 2) To determine the equivalent resistance of two resistances when connected in series.
Chem.	Ch 4: Carbon and its compound Bonding in carbon, saturated & unsaturated compounds, Homologous Series,	Intext Questions	
Bio.	Chap- 9 Heredity & Evolution Contd.- Sex determination.	TBQs and assignment	
		ONLINE EDUCOSOFTESSMENTS	
OCT			
16 - 31 (9 days)			

Phy	Chap-12 : Electricity : Heating effects of electric current ,electric power	TBQs and assignment	
Chem.	Nomenclature of carbon compounds	Intext Questons	
Bio.	CHAP 15 OUR ENVIORNMENT		
	Addition of waste, ecosystem,its components, food chain & Effect of activities on enviornment, ozone layer, its depletion, garbage management	TBQs and assignment	To identify the different parts of an embryo of a dicot seeds.(Pea, gram & Red kidney bean)
		ONLINE EDUCOSOFT ASSESSMETS	
Nov			
1- 15 (09 days)			
Phy.	Chap-13 Magnetic Effects of Electric Current:		NOTE BOOK ASSESSMENT-II
	Magnetic field & magnetic field lines,magnetic field due to current carrying conductor	Intext Questons	PRACTICAL SKILLS ASSESSMENT-II
Chem.	Chemical properties of carbon compounds, soaps and detergents	TBQs and assignment	
Bio.	REVISION		
		ONLINE EDUCOSOFT ASSESSMETS	
Nov.			
16 - 30 (12 days)			
Phy.	Chap-13 Magnetic Effects of Electric Current		
	magnetic field due to a current carrying coil or solenoid,Force on current carrying conductor, Fleming's L.H.R, Direct Current, Apternating Current,Frequency of AC,Advantage of AC over DC, Domestic electric circuit Revision	TBQs and assignment	
Chem.	REVISION	ONLINE EDUCOSOFT ASSESSMETS	
Bio.			
Dec.1-15			
No. of days-12			
Phy			
Chem.	PREBOARD (4 Deccember onwards)		Complete Syllabus
Bio.			

