ACADEMIC PLANNER 2022-2023 (S.D PUBLIC SCHOOL.PITAM PURA.DELHI) CLASS X

SCIENCE

Date/day	CONTENTS	Teaching pedagogy	Assignments given	EXPERIMENT/ACTIVITY
April 1-15				
No. of days-10				
Phy.	Chap-10 Light- Reflection & Refraction:Reflection of light, spherical mirrors	Lecture cum demonstration	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	Direct instruction and demostration method	Intext Questions	
	Balancing a chemical equation			To perform & observe the following reactions & classify them into
	Types of chemical reactions - Combination reaction			(a) combination reaction
	Decomposition reaction, Displacement reaction .		ONLINE EDUCOSOFT	(b) decomposition reaction
			ASSESSMETS	(c) displacement reaction
				(d) double displacement reaction
Bio.	Chap- 6 : Life processes			
	Nutrition, Autotrophic Nutrition in plants and Heterotrophic	Project based		
	Nutrition in human beings			
April 16-30				
No. of days-13				
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 assigment	
	Types of respiration , respiratory system,			

	transportation - structure of heart, blood vessels, lymph		ONLINE EDUCOSOFT	
	Transportation in plants, transport of water and food , excretion in human beings and in plants		ASSESSMETS	
MAY 1-15				
No. of days-10			Intext Questions	
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	Observation and Kinesthetic learning	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	Crossword puzzles and quiz	TBQs and assigment	
			ONLINE EDUCOSOFT ASSESSMETS	
	CLASS TEST-I (2 MAY-10 MAY) 20 MARKS (4th May 2022)			SYLLABUS CHAPTER-1 CHEMICAL REACTIONS AND EQUATIONS CHAPTER-6 LIFE PROCESSES (till topics covered) CHAPTER-10 LIGHT:REFLECTION AND REFRACTION (till topics covered)
MAY 16-31				
No. of days-12				
Phy.	Chap-10 Light- lens formula , power of lens		TBQs and assigment	
Chem.	Chemical properties of acids and bases, a) Reaction of acid & bases with metals, metal carbonates, metal bi- carbonatesb) 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.			

Summer vacations July 1-15 No. of days-12 Phy. Chap-11 Human eye and colourful world: Functioning of lens in human eye, Defects of vision and their corrections Chem. Chapter 2: pH and its importance chemicals from common salts-souldim hydroide, bleaching powder, baking soda, washing soda, POP (Plaster of Paris) To find the pH of the following solutions using a pH paper. To find the pH of the following solutions using a pH paper. (1) Dil. NaOH solution (2) Dil. NaOH solution (3) Dil. Ethanoic acid (4) Lemon julce (5) Water (6) Dil. Solium blearbonate Bio. Chap-7: Control and Coordination Contd. movements due to growth, hormones in animals July16-31 Phy. Chap-11 Human eye and colourful world: Refraction in prism Dispersion of light, scattering of light Applications in daily life Chap-3 Metals and Nor-Metals = Physical Properties of metals and non-Momentation method and file passers on the file of prism. No of Days-13 Chap-3 Hattis and Nor-Metals = Physical Properties of metals and non-Momentation method and file passers on the path of Zn, Fe, Cu, Al on following salts- To observe the action of Zn, Fe, Cu, Al on following salts- To observe the action of Zn, Fe, Cu, Al on following salts- To observe the action of Zn, Fe, Cu, Al on following salts- To observe the action of Zn, Fe, Cu, Al on following salts-		Coordination in plants immediate recognition to attenut a	TBQs and assigment	
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Signature Sign				(1) Dil. HCl
Assessment Ass				(2) Dil.NaOH solution
Bio. Chap-7 : Control and Coordination Contd. movements due to growth, hormones in animals July16-31 Phy. Chap-11 Human eye and colourful world : Refraction in prism Dispersion of light, scattering of light, Applications in daily life Chem. Chap-3 Metals and Non-Metals- Physical Properties of metals and non-metals Chemical properties: Reaction of metals with air, water and acids and flip cassroom ONLINE EDUCOSOFT (6) Dil. Sodium bicarbonate (6) Dil. Sodium bicarbonate To prepare a temporary mount of a leaf peel to show stomata To show experimentally that carbondioxide is given out during respiration To trace the path of ray of light passing through a glass prism. To trace the path of ray of light passing through a glass prism. To observe the action of Zn, Fe, Cu, Al on following salts-ZnSO4, FeSO4, CuSO4, AlZ(SO4)3 And arrange the metals in order of decreasing reactivity				(3) Dil. Ethanoic acid
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Bio. Chap-7 : Control and Coordination Contd. movements due to growth, hormones in animals July16-31 No. of Days-13 Phy. Chap-11 Human eye and colourful world : Refraction in prism Dispersion of light, scattering of light, Applications in daily life Chap-3 Metals and Non-Metals- Physical Properties of metals and nonmetals Chemical properties: Reaction of metals with air, water and acids and flip cassroom ASSESSMETS (6) Dil. Sodium bicarbonate To prepare a temporary mount of a leaf peel to show stomata To show experimentally that carbondioxide is given out during respiration To trace the path of ray of light passing through a glass prism. To observe the action of Zn, Fe, Cu, Al on following salts-ZnSO4, FeSO4, CuSO4, Al2(SO4)3 And arrange the metals in order of decreasing reactivity			ONLINE EDUCAÇAET	(5) Water
movements due to growth, hormones in animals July16-31 No. of Days-13 Phy. Chap-11 Human eye and colourful world: Refraction in prism Dispersion of light, scattering of light, Applications in daily life Chap. 3 Metals and Non-Metals- Physical Properties: Reaction of metals with air, water and acids and flip cassroom Chap. 3 Metals and Non-Metals- Physical Properties: Reaction of metals with air, water and acids and flip cassroom To observe the action of Zn, Fe, Cu, Al on following salts-ZnSO4, FeSO4, CuSO4, Al2(SO4)3 And arrange the metals in order of decreasing reactivity				(6) Dil. Sodium bicarbonate
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No. of Days-13 Phy. Chap-11 Human eye and colourful world: Refraction in prism Dispersion of light, scattering of light, Applications in daily life Chap-3 Metals and Non-Metals- Physical Properties of metals and non-metals Chemical properties: Reaction of metals with air, water and acids and flip cassroom Tags and assignment To trace the path of ray of light passing through a glass prism. To observe the action of Zn, Fe, Cu, Al on following salts-ZnSO4, FeSO4, CuSO4, Al2(SO4)3 And arrange the metals in order of decreasing reactivity				
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Chap-11 Human eye and colourful world: Refraction in prism , Dispersion of light, scattering of light, Applications in daily life Chap-3 Metals and Non-Metals- Physical Properties of metals and non-metals Chemical properties: Reaction of metals with air, water and acids Chem. Chap-3 Metals and Non-Metals- Physical Properties of metals and non-metals Chemical properties: Reaction of metals with air, water and acids To observe the action of Zn, Fe, Cu, Al on following salts-ZnSO4, FeSO4, CuSO4, Al2(SO4)3 And arrange the metals in order of decreasing reactivity	No. of Days-13			
metals Chemical properties: Reaction of metals with air, water and acids and flip cassroom To observe the action of Zn, Fe, Cu, Al on following salts-ZnSO4, FeSO4, CuSO4, Al2(SO4)3 And arrange the metals in order of decreasing reactivity	Phy.		TBQs and assigment	
Bio. Chap-8 How Do Organisms Reproduce -	Chem.		Intext Questions	ZnSO4, FeSO4, CuSO4, Al2(SO4)3 And arrange the metals
	Bio.	Chap-8 How Do Organisms Reproduce -		
	2.0.			

	Variation and its importance, asexual reproduction - fission, fragmentation,regeneration,buddingvegetative propagation, spore formation,	Oservation based		To study a) Binary fission in amoeba, b) Budding in yeast and Hydra with the help of prepared slides
			ONLINE EDUCOSOFT ASSESSMETS	
	CLASS TEST- II (25 JULY-2 AUG) 20 MARKS (26 July 2022)			SYLLABUS- CHAPTER-1 CHEMICAL REACTIONS AND EQUATIONS (till topics cevered) CHAPTER-6 LIFE PROCESSES (till topics covered) CHAPTER-10 LIGHT:REFLECTION AND REFRACTION (till topics covered)
Aug 1-15				
No. of days-9				
Phy.	Chap-12: Electricity			
	Electric current, potential difference,		Intext Questions	
Chem.	Reaction with metal salt solution , Reactivity series, basic mettalurgical processes		Intext Questions	
Bio.	Chap-8 How Do Organisms Reproduce Contd sexual reproduction in plants and in human beings		ONLINE EDUCOSOFT ASSESSMETS	
Aug.16-31				
No. of days-13				
	Chap-12: Electricity - circuit diagram, Ohm's law	Lecture cum demonstration	Intext Questions	To verify Ohm's Law.
Chem.	Chap-3 Metals and Non-Metals- Reaction between metals & non metals, lonic bond and lonic compounds, Properties of lonic compounds, corrosion of metals & Its prevention		TBQ and assignment	
Bio.	Chap-8 How Do Organisms Reproduce Contd.		TBQs and assigment	
	Reproductive health need and methods of family planning	Role plays	ONLINE EDUCOSOFT ASSESSMETS	
Sep 1-15				
No. of days-12				

Phy	Revision			
Chem.	Revision			
Bio.	Revision			
				REVISION and NOTE BOOK ASSESSMENT-I
	TERM-1 EXAMINATION (12 SEPT-28 SEPT 2022.) 16 SEPT 2022			
Sep 16-30	(and a second of the second of			
No. of days-13	3			
				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 colurful world
Oct 1-15				
No. of days-8				
No. of days-o				To determine the equivalent resistance of two resistances
Phy	Chap-12 : Electricity : Arrangement of resistance-in series & in parallel	Oservation based	Intext Questions	when connected in parallel. 2) To determine the equivalent resistance of two resistances when connected in series.
	Ch 4: Carbon and its compound			
Chem.	Bonding in carbon, saturated & unsaturated compounds, Homologous			
	Series,	Direct instruction	Intext Questions	
Bio.	Chap- 9 Heredity & Evolution ContdHeredity, Mendel's			
DIO.	contribution, trait expression Sex determination.		TBQs and assigment	
			ONLINE EDUCOSOFT	
			ASSESSMETS	
OCT 16-31				
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No. of days-10		1
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			TBQs and assigment	
Phy	Chap-12 : Electricity : Heating effects of electric current ,electric power		Tows 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	Fild trips	TBQs and assigment	To identify the different parts of an embryo of a dicot seeds.(Pea, gram & Red kidney bean)
	Chap 16 Management of Natural Resources	Portfolios		
	Students to read the chapter and not to be assessed		ONLINE EDUCOSOFT	
	in the year end examination will be internally		ASSESSMETS	
	assessed as periodic assessment or portfolio			
Nov 1-15				
No. of days-11				
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 assigment	
Bio.	REVISION			
			ONLINE EDUCOSOFT ASSESSMETS	
	CLASS TEST- III (1 NOV-9 NOV) 20 MARKS (2 NOV 2022)			SYLLABUS- CHAPTER- 4 CARBON AND ITS COMPOUND (till topics covered) CHAPTER-8 REPRODUCTION IN LIVING ORGANISMS CHAPTER-12 ELECTRICITY
Nov.16-30				
No. of days-13				
No. of days-13				
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 assigment	
Chem.	REVISION		ONLINE EDUCOSOFT ASSESSMETS	

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Bio.				
Dec.1-15				
No. of days-12				
Phy				
Chem.				
Bio.	PREBOARD (5 Dec-21 Dec) 9 Dec 2022			Complete Syllabus
Dec.16-31				
No. of days-14				
Phy	Revision for Board Examination			
Chem.				
Bio.				
Jan 1-15	WINTER BREAK			
No. of days-3				
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Jan 16-31				
No. of days-13	Revision for Board Examination			
Feb.1-15	Revision			
No. of days-12				
Feb.16-28				
No. of days-10				
March 1-31				BOARD EXAMINATION
No. of days-25				
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