



DELHI PUBLIC SCHOOL, DHENKANAL

Session 2026 - 2027

Class-XII SCIENCE

Month	SUBJECT	Topics
MARCH / APRIL	ENGLISH	Flamingo: <ul style="list-style-type: none"> • My Mother at Sixty-Six, • The Last Lesson . Vistas: <ul style="list-style-type: none"> • The Third Level Creative Writing: Notice
	MATH	<ul style="list-style-type: none"> • Relations and Functions • Inverse Trigonometric Functions • Matrices(Continued)
	PHYSICS	<ul style="list-style-type: none"> • Electrostatics & Current electricity
	CHEMISTRY	<ul style="list-style-type: none"> • Lesson2: Solution: Types of solutions, expression of concentration of solutions of solids in liquids, solubility of gases in liquids, solid solutions, Raoult's law, colligative properties - relative lowering of vapor pressure, elevation of boiling point <ul style="list-style-type: none"> • Lesson-10 : Halo alkanes & Halo arenes : Halo alkanes: Nomenclature, nature of C–X bond, physical and chemical properties, optical rotation mechanism of substitution reactions. : Halo arenes: Nature of C–X bond, substitution reactions (Directive influence of halogen in mono substituted compounds only).
	BIOLOGY	<ul style="list-style-type: none"> • Ch3-Human Reproduction
	COMPUTER SCIENCE	<ul style="list-style-type: none"> • Unit III: Introduction to Computer Networks Introduction to networks Types of network: LAN, MAN, WAN. Network Devices: modem, hub, switch, repeater, router, gateway Network Topologies: Star, Bus, Tree, Mesh Introduction to Internet, URL, WWW, and its applications- Web, email, Chat, VoIP.
	PHYSICAL EDUCATION	<ul style="list-style-type: none"> • Management of Sporting events • Children & women in sports
MAY	ENGLISH	Flamingo <ul style="list-style-type: none"> • Lost Spring • Keeping Quiet
	MATHS	<ul style="list-style-type: none"> • Matrices(Continued)
	PHYSICS	<ul style="list-style-type: none"> • Electrostatics & Current electricity
	CHEMISTRY	<ul style="list-style-type: none"> • Lesson-2 :Solution :depression of freezing point, osmotic pressure ,determination of molecular masses using colligative properties, abnormal molecular mass, VantHoff factor <ul style="list-style-type: none"> • Lesson-10 : Haloalkanes & Haloarenes : Uses and environmental effects of - dichloromethane, trichloromethane, tetrachloromethane, iodoform, freons, DDT

	BIOLOGY	<ul style="list-style-type: none"> Human Reproduction Ch4–ReproductiveHealth
	COMPUTER SCIENCE	<ul style="list-style-type: none"> Unit I :Computational Thinking and Programming–2 Functions:typesoffunction(built-infunctions,functionsdefinedinmodule,user defined functions)
	PHYSICAL EDUCATION	Yoga as preventive measures for lifestyle disease
JUNE	ENGLISH	Flamingo <ul style="list-style-type: none"> Deep Water Vistas <ul style="list-style-type: none"> Journey to the end of the Earth, The tiger king Creative writing <ul style="list-style-type: none"> Invitation Formal and informal
	MATH	<ul style="list-style-type: none"> Matrices Determinants
	PHYSICS	<ul style="list-style-type: none"> Electrostatics & Current electricity
	CHEMISTRY	<ul style="list-style-type: none"> Lesson-3 : Electrochemistry : Redox reactions, EMF of a cell, standard electrode potential Nernst equation and its application to chemical cells, Relation between Gibbs energy change and EMF of a cell, <ul style="list-style-type: none"> Lesson-11 : Alcohols Phenols & Ethers : Alcohols: Nomenclature, methods of preparation, physical and chemical properties(of primary alcohols only),identification ofprimary,secondaryandtertiaryalcohols,mechanismofdehydration,uses with Special reference to methanol and ethanol
	BIOLOGY	<ul style="list-style-type: none"> Ch2—SexualReproductioninFloweringPlants
	COMPUTER SCIENCE	<ul style="list-style-type: none"> Functions cont..
	PHYSICAL EDUCATION	<ul style="list-style-type: none"> Physical Education and Sports for CWSN
	ENGLISH	Flamingo : <ul style="list-style-type: none"> A Thing of Beauty, The Rattrap. Vistas: <ul style="list-style-type: none"> The Enemy Creative writing <ul style="list-style-type: none"> Replies of invitation cont.
JULY	MATH	<ul style="list-style-type: none"> Continuity and Differentiability Application of Derivatives
	PHYSICS	<ul style="list-style-type: none"> Magnetic Effect of Current & Magnetism
	CHEMISTRY	<ul style="list-style-type: none"> Lesson-3: Electro chemistry :conductance in electrolytic solutions, specific and molar conductivity, variations of conductivity with concentration, Kohlrausch’s Law, electrolysis and law of electrolysis (elementary idea), dry cell-electrolytic cells and Galvanic cells, lead accumulator, fuel cells, corrosion. <ul style="list-style-type: none"> Lesson-11 Alcohols Phenols & Ethers : Phenols: Nomenclature, methods of preparation, physical and chemical properties, acidic nature of phenol, electrophilic substitution reactions, uses of phenols. Ethers: Nomenclature,

		methods of preparation
	BIOLOGY	<ul style="list-style-type: none"> Ch5---PrinciplesofInheritanceandVariation Ch6—MolecularBasisofInheritance
	COMPUTER SCIENCE	<ul style="list-style-type: none"> File Handling CSV file,text file ,binary file
	PHYSICAL EDUCATION	<ul style="list-style-type: none"> Sports and nutrition
AUGUST	ENGLISH	Flamingo <ul style="list-style-type: none"> Indigo A Roadside stand Vistas <ul style="list-style-type: none"> The Enemy cont.. Letter writing (Editor- issues of public interest),
	MATH	<ul style="list-style-type: none"> Integrals Application of Integrals
	PHYSICS	<ul style="list-style-type: none"> Electromagnetic Induction & Alternating Current, Electromagnetic Waves
	CHEMISTRY	<ul style="list-style-type: none"> Lesson-4 : Chemical Kinetics : Rate of a reaction (Average and instantaneous),factors affecting rate of reaction: concentration, temperature, catalyst; order and molecularity of a reaction, rate law and specific rate constant, integrated rate equations and half-life (only for zero and first order reactions), concept of collision theory (elementary idea, no mathematical treatment), activation energy, Arrhenius equation. <ul style="list-style-type: none"> Lesson-11: Alcohols Phenols& Ethers:physical and chemical properties, uses. <ul style="list-style-type: none"> Lesson-12 : Aldehydes Ketones & Carboxylic Acids : Aldehydes and Ketones: Nomenclature, nature of carbonyl group, methods of preparation, physical and chemical properties, mechanism of nucleophilic addition, reactivity of alpha hydrogen in aldehydes, uses.
	BIOLOGY	<ul style="list-style-type: none"> Ch7-Evolution Ch8-HumanHealthandDiseases
	COMPUTER SCIENCE	<ul style="list-style-type: none"> Data Structure Stack,operations on stack(push&pop)
	PHYSICAL EDUCATION	<ul style="list-style-type: none"> Test and Measurement in Sports
	SEPTEMBER	ENGLISH
MATH		<ul style="list-style-type: none"> Linear Programming Differential Equations(Continued)
PHYSICS		<ul style="list-style-type: none"> Ray Optics, Wave Optics
CHEMISTRY		<ul style="list-style-type: none"> Lesson-8 :

		<p>d- & f - block elements : General introduction, electronic configuration, occurrence and characteristics of transition metals, general trends in properties of the first-row transition metals– metallic character, ionization enthalpy, oxidation states, ionic radii, colour, catalytic property, magnetic properties, interstitial compounds</p> <p>alloy formation, preparation and properties of $K_2Cr_2O_7$ and $KMnO_4$. Lanthanoids– Electronic configuration, oxidation states, chemical reactivity and lanthanoid contraction and its consequences. Actinoids - Electronic configuration, oxidation states and comparison with lanthanoids .</p> <ul style="list-style-type: none"> Lesson-12 : <p>Aldehydes Ketones & Carboxylic Acids Carboxylic Acids: Nomenclature ,acidic nature, methods of preparation, physical and chemical properties; uses.</p>
	BIOLOGY	<ul style="list-style-type: none"> Ch10-Microbes in Human Welfare Ch13-Organism and Population
	COMPUTER SCIENCE	<p>Unit III: Database Management System</p> <p>Database Management:</p> <ul style="list-style-type: none"> Database concepts: introduction to database concepts and its need Relational data model: relation, attribute, tuple, domain, degree, cardinality ,keys(candidate key, primary key, alternate key, foreign key)
	PHYSICAL EDUCATION	<ul style="list-style-type: none"> Physiology and injury in Sports
OCTOBER	ENGLISH	<p>Flamingo</p> <ul style="list-style-type: none"> The interview <p>Vistas</p> <ul style="list-style-type: none"> Memories of the childhood, creative writing Report writing
	MATH	<ul style="list-style-type: none"> Differential Equations Vector Algebra
	PHYSICS	<ul style="list-style-type: none"> Dual nature of Radiation & Matter Atoms & Nuclei
	CHEMISTRY	<ul style="list-style-type: none"> Lesson-9 : <p>Coordination compounds : Coordination compounds - Introduction, ligands, coordination number, colour, magnetic properties and shapes, IUPAC nomenclature of mononuclear coordination compounds. Bonding, Werner's theory, VBT, and CFT.</p> <ul style="list-style-type: none"> Lesson-13 : <p>Amines : Amines: Nomenclature, classification, structure, methods of preparation, physical and chemical properties, uses, identification of primary ,secondary and tertiary amines. Diazonium salts: Preparation, chemical Reactions and importance in synthetic organic chemistry</p>
	BIOLOGY	<ul style="list-style-type: none"> Ch11-Biotechnology-Principles and Processes, Ch12-Biotechnology and its Applications
	COMPUTER SCIENCE	<p>Database Management:</p> <ul style="list-style-type: none"> Structured Query Language: introduction, Data Definition Language and Data Manipulation Language, data type (char(n), varchar(n), int, float, date), constraints(not null, unique, primary key), create database, use database, show databases, drop database, show tables, create table, describe table,

		alter table (add and remove and attribute, add and remove primary key)
	PHYSICAL EDUCATION	<ul style="list-style-type: none"> Psychology&Sports BioMechanics and sports
NOVEMBER	ENGLISH	<p>Flamingo</p> <ul style="list-style-type: none"> Going places <p>Vistas</p> <ul style="list-style-type: none"> memories of child hood II, <p>Creative writing</p> <ul style="list-style-type: none"> article Writing
	MATH	<ul style="list-style-type: none"> 3-DGeometry Probability
	PHYSICS	<ul style="list-style-type: none"> Electronic Device
	CHEMISTRY	<ul style="list-style-type: none"> Lesson-9 : <p>Coordination compounds : structure and stereoisomerism, the importance of coordination compounds (in qualitative analysis, extraction of metals and biological system).</p> <ul style="list-style-type: none"> Lesson-14: <p>Biomolecules: Carbohydrates - Classification (aldoses and ketoses), monosaccharides (glucose and fructose), D-L configuration oligosaccharides (sucrose, lactose, maltose), polysaccharides (starch, cellulose, glycogen); Importance of carbohydrates. Proteins -Elementary idea of - amino acids, peptide bond, polypeptides, proteins, structure of proteins - primary, secondary, tertiary structure and quaternary structures (qualitative idea only), denaturation of proteins; enzymes. Hormones-Elementaryideaexcludingstructure.Vitamins-Classification and functions. Nucleic Acids: DNA and RNA.</p>
	BIOLOGY	<ul style="list-style-type: none"> Ch14-Ecosystem Ch15-BiodiversityanditsConservation
	COMPUTER SCIENCE	<p>Unit III: Database Management System</p> <ul style="list-style-type: none"> aggregate functions (max, min, avg, sum, count), group by, having clause, joins:cartesian product on two tables, equi-join and natural join <p>Interface of python with an SQL database: connecting SQL with Python, performing insert, update, delete queries using cursor, display data by using fetchone(), fetchall(), rowcount, creating database connectivity applications</p>
	PHYSICAL EDUCATION	<ul style="list-style-type: none"> Training in Sports
DECEMBER	ENGLISH	ASL Revision
	MATH	REVISION
	PHYSICS	REVISION
	CHEMISTRY	REVISION
	BIOLOGY	REVISION
	COMPUTER SCIENCE	REVISION
	PHYSICAL EDUCATION	REVISION