

## Annual Planner 2021-22

Class – 11 Science

			Subject - Maths			
Month	No. of working days	Name of the chapter	Topic / Sub topic	No of periods	TL resources	Mode of assessment
April		No classes in April				
May	10	1. Sets	Sets and their representations. Empty set. Finite and infinite set. Equal sets. Subsets of the set of real numbers especially intervals (with notations). Power set, Universal set, Venn diagrams, Union and intersection of sets. Difference of sets. Complement of a set.	4	NCERT text book Refresher of RD Sharma. At the time of revision for tests and internal exams sample papers of CBSE will be used for revision.	Weekly quizzes and the internal exams as per the schedule of the school.
June	12	<ol> <li>Sets continued</li> <li>Trigonometry</li> </ol>	Sets continued Positive and negative angles. Measuring angles in radians and in degrees and conversion from one measure to another. Definition of trigonometric functions with the help of unit circle. Truth of the identity $\sin^2 x + \cos^2 x = 1$ , for all x. Signs of	7 5	NCERT text book Refresher of RD Sharma. At the time of revision for tests and internal exams sample papers of CBSE will be used for revision.	Weekly quizzes and the internal exams as per the schedule of the school.



			trigonometric functions and sketch of their graphs. Expressing $sin(x + y)$ and cos (x + y) in terms of $sin x$ , sin y, $cos x & cos y$ . Identities related to $sin2x$ , cos2x, $tan2x$ , $sin3x$ , $cos3xand tan3x. General solutionof trigonometric equations.Principle of MathematicalInduction:Processes of the proof byinduction. Motivating theapplication of the method bylooking at natural numbersas the least inductive subsetof real numbers. Theprinciple of mathematicalinduction and simpleapplications.$			
July	25	1. Complex Numbers and quadratic equations:	Complex Numbers and quadratic equations: Need for complex numbers, especially, to be motivated by inability to solve every quadratic equation. Brief description of algebraic properties of complex numbers. Argand plan and	19 6	NCERT text book Refresher of RD Sharma. At the time of revision for tests and internal exams sample papers of CBSE will be used for revision.	Weekly quizzes and the internal exams as per the schedule of the school.



	polar representation of		
	complex numbers		
	Statement of fundamental		
	theorem of algebra solution		
	of quadratic equation in the		
	complex number system		
	Linear inequalities:		
	Linear inequalities.		
2. Linear inequalities	Algebraic solution of linear		
	inequalities in one variable		
	their representation on the		
	number line. Graphical		
	solution of linear		
	inequalities in two variables.		
	Solution of system of linear		
	inequalities in two		
	variables-graphically.		
3 Principal of mathematical	Principle of Mathematical		
induction	Induction:		
induction	Processes of the proof by		
	induction. Motivating the		
	application of the method by		
	looking at natural numbers		
	as the least inductive subset		
	of real numbers. The		
	principle of mathematical		
	induction and simple		
	applications.		



August	23	1. Permutation and	<b>Permutation</b>	15	NCERT text book	Weekly quizzes and the
-		combination	&Combinations:		Refresher of RD	internal exams as per the
			Fundamental principal of		Sharma.	schedule of the school.
			counting. Factorial notation.		At the time of	
			Permutation & combination,		revision for tests	
			derivation of formula and		and internal exams	
			their connection simple		sample papers of	
			application.		CBSE will be used	
		2. Binomial theorem	<b>Binomial theorem:</b>		for revision.	
			History, statement and proof			
			of the binomial theorem for			
			positive integral indices.			
			middle term in hinemial			
			avansion simple			
			applications	8		
			appreations.	0		
			Sequence Series:			
			Sequence and series.			
			Arithmetic progression			
			(A.P)			
			Arithmetic mean (A.M)			
			Geometric progression			
			(G.P) General term of a G.P			
		3. Sequence and series	sum of n terms of a G.P,			
			geometric mean(G.M)			
			relation between A.M and			
			G.M. Sum of n terms of			
			special series:			



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September	24	1. Straight lines	Straight Lines:	8	NCERT text book	Weekly quizzes and the
			Brief recall of 2D from		Refresher of RD	internal exams as per the
			earlier classes. Slope of a		Sharma.	schedule of the school.
			line and angle between to		At the time of	
			two lines. Various form so		revision for tests	
			equations of a line parallel		and internal exams	
			to axes, point-slope form,		sample papers of	
			slope-intercept form, two		CBSE will be used	
			point form, intercept form		for revision.	
			and normal form. General			
			equation of a line. Distance			
			of a point from a line.			
			Conic section:			
			Section of a cone, circle,			
			ellipse, parabola, hyperbola,			
		2. Conic sections	a point straight line and pair			
			of intersecting lines as a			
			degenerated case of a conic			
			section Standard equation			
			and simple properties of			
			parabola ellipse and			
			hyperbola			
			Introduction to 3D			
			Coometry: co ordinate			
			plains in 3 D coordinates of			
		3 Three dimensional geometry	a point distance between			
			two points and sostion			
			formula			1
			ioimula.			1
						1



October	10	1 Limits and darivativas	Limits and Darivativas	05	NCEPT toxt book	Wookly guizzos and the
OCIODEI	19	1. Linnis and derivatives	Linits and Derivatives	03		weekiy quizzes and the
			Derivative introduced as		Refresher of RD	internal exams as per the
			rate of change both as that		Sharma.	schedule of the school.
			of distance function and		At the time of	
			geometrically. Intuitive idea		revision for tests	
			of limit. Limits of		and internal exams	
			polynomials and rational		sample papers of	
			functions trigonometric,	14	CBSE will be used	
			exponential and logarithmic		for revision.	
			functions. Definition of			
			derivative relates it to scope			
			of tangent of the curve,			
			derivative of sum,			
			difference, product and			
			quotient of functions.			
			Derivatives of polynomial			
			and trigonometric functions.			
			Statistics			
			Measures of Dispersion.			
			Range Mean deviation			
			variance and standard			
		2 Statistics	deviation of			
		2	Ungrouped / grouped data			
			A polysis of froquency			
			distributions with squal			
			moone but different			
			ineans but unierent			
			variances.			



November	20	1. Relation and functions	<b>Relations &amp; Functions</b> :	10	NCERT text book	Weekly quizzes and the
			Ordered pairs, Cartesian		Refresher of RD	internal exams as per the
			product of sets. Number of		Sharma.	schedule of the school.
			elements in the Cartesian		At the time of	
			product of two finite sets.		revision for tests	
			Cartesians products of their		and internal exams	
			real with itself (up to R x R		sample papers of	
			x R). Definition of relation,		CBSE will be used	
			pictorial diagrams, domain,	10	for revision.	
			co-domain and range of			
			relation. Function as special			
			kind of relation from one set			
			to another. Pictorial			
			representation of a function,		NCERT text book	
			domain, co-domain & range		Refresher of RD	
			of a function. Real valued		Sharma.	
			function of the real variable,		At the time of	
			domain and range of these		revision for tests	
			functions, constant, identity,		and internal exams	
			polynomial, rational,		sample papers of	
			modulus, Signum and		CBSE will be used	
			greatest integer function		for revision.	
			with their graphs. Sum,			
			difference, product and			
			quotients of functions.			
			Probability			
			Random experiments;			
			outcomes, sample spaces			
			(set representation). Events;			
			occurrence of events, 'not',			



		2. Probability	'and' and 'or' events, exhaustive events, mutually exclusive events, Axiomatic (set theoretic) probability, connections with other theories of earlier classes. Probability of an event, probability of 'not', 'and' and 'or' events.			
	•	-	Subject - English			•
APRIL	17 [2 Days for XI]	1-The portrait of a Lady[Prose]	Characterization Extract and Short Based questions.	2	Hornbill and Snapshot [NCERT Books] Online resources Reference Books Video links	Weekly Quiz, Assignments, Oral and written assignments in form of Worksheets.
MAY	10	1-The portrait of a Lady[Prose] 1-A Photograph [Poem] Comprehension Exercises	Difficult words Poetic devices & Reference to Context	4 4 2	Hornbill and Snapshot [NCERT Books] Online resources Reference Books Video links	PRE MID TERM1-The portrait of a Lady[Prose]1-A Photograph [Poem]2-The Silk Road1-The Summer of BeautifulWhite HorseComprehension andGrammar Exercises.
JUNE	12	2-The Silk Road Note Making Comprehension Passage Speech Writing	Difficult words Formats	7 3 2	Hornbill and Snapshot [NCERT Books]	



			Examples of Passage and Speech		Online resources Reference Books Video links	
JULY	25	<ul> <li>1-The Summer of Beautiful White Horse</li> <li>3-We Are Not Afraid to Die</li> <li>4-Discovering Tut-The Saga Continues</li> <li>2.The Laburnum Top</li> <li>Gap filling, Rearrange the words and Editing and Omission.</li> </ul>		5 6 5 3 5	Hornbill and Snapshot [NCERT Books] Online resources Reference Books Video links	
AUGUST	23	<ul><li>6-The Ailing Planet</li><li>2.The Address</li><li>3.Ranga's Marriage</li><li>3.The Voice of The Rain Formal Letter writing Debate writing</li></ul>		5 5 5 4 2 2	Hornbill and Snapshot [NCERT Books] Online resources Reference Books Video links	
SEPTEMBER	24	4-Albert Einstein At School 6-The Adventure REVISION OF MID TERM	Note Making Grammar Exercises	5 5 14	Hornbill and Snapshot [NCERT Books] Online resources Reference Books Video links	<u>MID TERM EXAM</u> Syllabus completed till September
OCTOBER	19	5-A Mother's Day 6-Birth Choose the correct form of Verb	Grammar exercises based on modals and verbs	6 7 6	Hornbill and Snapshot [NCERT Books] Online resources Reference Books	POST MID TERM 5-A Mother's Day 6-Birth 6-The Adventure Choose the correct form of Verb



					Video links	Speech and Article Writing
NOVEMBER	20	8-The Tale of Melon City	Poetic Devices	7	Hornbill and	
		7-The Browning Version	Reference to Context	7	Snapshot	
		Debate and Speech Writing	Short, ,Long and Extract	4	[NCERT Books]	
		Grammar	based questions.	2	Online resources	
			_		Reference Books	
					Video links	
DECEMBER	19	7-The Browning Version		7	Hornbill and	ANNUAL EXAM
		5-Father to Son		6	Snapshot	ENTIRE SYLLABUS
		Revision of Grammar		6	[NCERT Books]	
					Online resources	
					Reference Books	
					Video links	
JANUARY	23	REVISION		23		
FEBRUARY	23	REVISION		23		
MARCH	23	ANNUAL EXAMINATION		-		
			Subject – Physics			
May	09	Physical World	Physics-scope and	02	NCERT Book,	
			excitement; nature of			Weekly Physics quiz,
			physical laws; Physics,			Numerical, Pen paper
		Mathematical Physics	technology and society	05	NCERT Book, S.L	test .
			Differentiation, Integration		Arora'S book,	
					Diksha portal.	
						Weekly Physics quiz,
June	11	2.Unit and Measurement	Need for measurement:	08	NCERT Book, S.L	Assignment, Unit test
			Units of measurement;		Arora'S book,	-1
			systems of units; SI units,		Diksha portal.	
			fundamental and derived			
			units. Length, mass and time			
			measurements; accuracy and			



		Chapter–3: Motion in a Straight Line	precision of measuring instruments; errors in measurement; significant figures. Dimensions of physical quantities, dimensional analysis and its	03	NCERT Book, S.L Arora'S book, Diksha portal	Weekly Physics quiz, Assignment, Unit test -1
July	25	Chapter–3: Motion in a Straight Line	applications. Frame of reference, Motion in a straight line: Position-time graph, speed and velocity.	13	NCERT Book, S.L Arora'S book, Diksha portal.	Weekly Physics quiz, Assignment .
		Chapter–4: Motion in a Plane	Elementary concepts of differentiation and integration for describing motion, uniform and non- uniform motion, average speed and instantaneous velocity, uniformly	09	NCERT Book, S.L Arora'S book, Diksha portal.	
		Chapter–5: Laws of Motion	accelerated motion, velocity - time and position-time graphs. Relations for uniformly accelerated motion (graphical treatment). Scalar and vector quantities; position and displacement	03	NCERT Book, S.L Arora'S book, Diksha portal.	



			vectors, general vectors and their notations; equality of vectors, multiplication of vectors by a real number; addition and subtraction of vectors, relative velocity, Unit vector; resolution of a vector in a plane, rectangular components, Scalar and Vector product of vectors. Motion in a plane, cases of uniform velocity and uniform accelerationprojectile motion, uniform circular motion. Intuitive concept of force, Inertia, Newton's first law of motion; momentum and Newton's second law of motion; impulse; Newton's third law of motion.			
August	23	Chapter–5: Laws of Motion	Law of conservation of linear momentum and its applications. Equilibrium of concurrent forces, Static and kinetic friction, laws of friction, rolling friction, lubrication. Dynamics of	08	NCERT Book, S.L Arora'S book, Diksha portal.	Weekly Physics quiz, Assignment . pre mid-term



	uniform circular motion:			
Chapter–6: Work, Engery and	Centripetal force, examples			
Power	of circular motion (vehicle			
	on a level circular road,	10	NCERT Book, S.L	
	vehicle on a banked road).		Arora'S book,	
			Diksha portal.	
	Work done by a constant		1	
	force and a variable force;			
	kinetic energy, workenergy			
	theorem, power. Notion of			
	potential energy, potential			
Chapter-8: Gravitation	energy of a spring,			
-	conservative forces:	05	NCERT Book, S.L	
	conservation of mechanical		Arora'S book,	
	energy (kinetic and potential		Diksha portal.	
	energies); nonconservative			
	forces: motion in a vertical			
	circle; elastic and inelastic			
	collisions in one and two			
	dimensions.			
	Kepler's laws of planetary			
	motion, universal law of			
	gravitation. Acceleration			
	due to gravity and its			
	variation with altitude and			
	depth. Gravitational			
	potential energy and			
	gravitational potential,			
	escape velocity, orbital			



			velocity of a satellite.			
			Geo-stationary satellites.			
			5		NCERT Book, S.L	Weekly Physics guiz,
September	23	Chapter-8: Gravitation	escape velocity, orbital velocity of a satellite, Geo-stationary satellites	03	Arora'S book, Diksha portal.	Assignment ,Mid term
		Chapter-7: System of Particles and	See stationary saternees	10		
		Revision and Half Yearly	Centre of mass of a two-particle system, momentum conservation and centre of mass motion. Centre of mass of a rigid body; centre of mass of a uniform rod. Moment of a force, torque, angular momentum, law of conservation of angular momentum and its applications. Equilibrium of rigid bodies, rigid body rotation and equations of	10		
		Examination	rotational motion, comparison of linear and rotational motions. Moment of inertia, radius of gyration, values of moments of inertia for simple geometrical objects (no derivation). Statement of parallel and	10		



			perpendicular axes theorems and their applications.			
October	17	Chapter–9: Mechanical Properties of Solids	Elastic behaviour, Stress-strain relationship, Hooke's law, Young's modulus, bulk modulus,	04	NCERT Book, S.L Arora'S book, Diksha portal.	Weekly Physics quiz, Assignment
		Chapter–10: Mechanical Properties of Fluids	shear modulus of rigidity, Poisson's ratio; elastic energy. Pressure due to a fluid column; Pascal's law and its applications (hydraulic lift and hydraulic brakes), effect of gravity on fluid pressure. Viscosity, Stokes' law,	10		
		Chapter–11: Thermal Properties of Matter	terminal velocity, streamline and turbulent flow, critical velocity, Bernoulli's theorem and its applications. Surface energy and surface tension, angle of contact, excess of pressure across a curved surface, application of surface tension ideas to	03	NCERT Book, S.L Arora'S book, Diksha portal.	



			drops, bubbles and capillary rise. Heat, temperature, thermal expansion; thermal expansion of solids, liquids and gases, anomalous expansion of water;			
November	20	Chapter-11: Thermal Properties of Matter	specific heat capacity; Cp, Cv - calorimetry; change of state - latent heat capacity. Heat transfer-conduction, convection and radiation, thermal conductivity, qualitative ideas of Blackbody radiation. Wein's	03	NCERT Book, S.L Arora'S book, Diksha portal.	Weekly Physics quiz, Assignment ,Pre-midterm
		Chapter-12. Thermodynamics	Thermal equilibrium and definition of temperature (zeroth law of thermodynamics), heat,	09	NCERT Book, S.L Arora'S book, D iksha portal.	
		Chapter–13: Kinetic Theory	work and internal energy. First law of thermodynamics, isothermal and adiabatic processes. Second law of thermodynamics: reversible and irreversible processes, Heat engine and refrigerator.	05	NCERT Book, S.L Arora'S book, Diksha portal.	



		Chapter–14: Oscillations				
		1	Equation of state of a	03		
			perfect gas, work done in			
			compressing a gas. Kinetic			
			theory of gases -			
			assumptions, concept of			
		Chanten 14 Occillations	pressure. Kinetic			
		Chapter-14: Oscillations	interpretation of			
Daaamhar	10		temperature; rms speed of	10	NCEPT Pool S I	Wooldy Dhyging guiz
Decenitoer	19		freedom law of	10	Arora's book	Assignment Post
			equi-partition of energy		Diksha portal	midterm
			(statement only) and		Diksila portai.	inderni.
		Chapter-15: Wayes	application to specific heat			
		Chupter 15. Waves	capacities of gases: concept		NCERT Book SL	
			of mean free path.	09	Arora'S book.	
			Avogadro's number.		Diksha portal.	
			5		1	
			Periodic motion - time			
			period, frequency,			
			displacement as a function			
			of time, periodic functions.			
			Simple harmonic motion			
			(S.H.M) and its equation;			
			phase; oscillations of a			
			loaded spring- restoring			
			force and force constant;			
			Engineering CHM King (			
			Energy in S.H.M. Kinetic			
			and potential energies;			



			simple pendulum derivation of expression for its time period. Free, forced and damped oscillations (qualitative ideas only), resonance.			
			Wave motion: Transverse and longitudinal waves, speed of travelling wave, displacement relation for a progressive wave, principle of superposition of waves, reflection of waves,			
January	25	Chapter–15: Waves	standing waves in strings and organ pipes, fundamental mode and harmonics, Beats, Doppler effect	05		Weekly Physics quiz, Assignment, Annual examination.
			1	1	I	
			 viect – Informatics Practice	I		
April	17	Chapter 1 Introduction to Computer System Chapter 2 Python Fundamentals Practical based on Chapter 2 Python Fundamentals	Introduction to computers and computing: evolution of computing devices, components of a computer system and their interconnections, Input/Output devices.	10 5 2	Informatics Practices By Sumita Arora and Self Prepared Notes	



			Computer Memory: Units of memory, types of memory – primary and secondary, data deletion, its recovery and related security concerns. Software: purpose and types – system and application software, generic and specific purpose software. Basics of Python		
			programming, Python interpreter - interactive and script mode, the structure of a program, indentation, identifiers, keywords, constants, variables, types of operators, precedence of operators		
May	17	Practical based on Chapter 2 Python Fundamentals Chapter 3 Data Handling Practical based on Chapter 3 Data Handling	data types, mutable and immutable data types, statements, expressions, evaluation of expressions, comments, input and output statements, data type conversion	3 7 7	Informatics Practices By Sumita Arora and Self Prepared Notes
June	11	Chapter 4 Flow of Control Practical based on Chapter 4 Flow of Control	control statements: if-else, for loop	7 4	Informatics Practices By Sumita Arora and Self Prepared Notes



July	25	Practical based on Chapter 4 Flow of Control Chapter 5 List Manipulation Practical based on Chapter 5 List Manipulation	Lists: list operations - creating, initializing, traversing and manipulating lists, list methods and built-in functions.: len(), list(), append(), extend(), insert(), count(), find(), remove(), pop(), reverse(), sort(), sorted(), min(), max(), sum()	3 8 7	Informatics Practices By Sumita Arora and Self Prepared Notes	PERIODIC TEST 7
August	23	Practical based on Chapter 6 Dictionaries	bictionary: concept of key-value pair, creating, initializing, traversing, updating and deleting elements, dictionary methods and built-in functions: len(), dict(), keys(), values(), items(), get(), update(), clear(), del()	8	Practices By Sumita Arora and Self Prepared Notes	YEARLY EXAM 7
Sept	25	Chapter 7 Data Handling using NumPy		9	Informatics Practices By Sumita Arora and Self Prepared Notes	HALF YEARLY EXAM 16
Oct	17	Chapter 7 Data Handling using NumPy Practical based on Chapter 7 Data Handling using NumPy	Data and its purpose, importance of data, structured and unstructured data, data processing cycle, basic statistical methods for understanding data - mean, median, mode, standard	10 7	Informatics Practices By Sumita Arora and Self Prepared Notes	



			deviation and variance. Introduction to NumPy library, NumPy arrays and their advantage, NumPy attributes			
Nov	20	Chapter 7 Data Handling using NumPy Practical based on Chapter 7 Data Handling using NumPy	creation of NumPy arrays; from lists using np.array(), np.zeros(), np.ones(), np.arange(), indexing, slicing, and iteration; concatenating and splitting array; Arithmetic operations on one dimensional and two dimensional arrays. Calculating max, min, count, sum, mean, median, mode, standard deviation, variance on NumPy arrays.	13 7	Informatics Practices By Sumita Arora and Self Prepared Notes	
Dec	19	Chapter 8 Database Concepts Practical based on Chapter 8 Database Concepts	Database Concepts: Introduction to database concepts and its need, Database Management System. Relational data model: concept of attribute, domain, tuple, relation, candidate key, primary key, alternate key, foreign key.	7 5	Informatics Practices By Sumita Arora and Self Prepared Notes	PERIODIC TEST 7



			Structured Query Language:			
			Data Definition Language,			
			Data Query Language and			
			Data Manipulation			
			Language, Introduction to			
			MySQL: Creating a			
			database, using database,			
			showing tables using			
			MySQL, Data Types : char,			
			varchar, int, float, date			
			Data Definition Commands:			
			CREATE, DROP, ALTER			
			(Add and Remove primary			
			key, attribute).			
			Data Query Commands:			
			SELECT-FROM- WHERE,			
			LIKE, BETWEEN, IN,			
			ORDER BY, using			
			arithmetic, logical, relational			
			operators and NULL values			
			in queries, Distinct clause			
			Data Manipulation			
			Commands: INSERT,			
			UPDATE, DELETE.			
		Chapter 9 Structured Query	Artificial Intelligence,	12	Informatics	
		Language	Machine Learning, Natural	6	Practices By	
Ian	25	Practical based on Chapter 9	Language Processing,	7	Sumita Arora	
Jull	23	Structured Query Language	Immersive experience (AR,			
		Chapter 10 Emerging Trends	VR), Robotics, Big data and			
		-	its characteristics, Internet			



F	eb	24	REVISION FOR ANNUAL EXAM	of Things (IoT), Sensors, Smart cities, Cloud Computing and Cloud Services (SaaS, IaaS, PaaS); Grid Computing, Block chain technology.	24		
M	larch	24	ANNUAL EXAMS		24		
10	otal	247					
	Month	No. of working days	Name of the chapter	Topic / Sub topic	No of periods	TL resources	Mode of assessment
	May	13	Class X Chapter-1 Chemical reactions and Equations (Bridge Course)	Chemical Reactions and their types with examples	4 Periods	NCERT Notebook &Well Prepared Notes	Oral questions,Reasonoin questions ,Short & long Questions, Weekly Quiz Paper
	June	11	Unit-1 Some basic concepts of chemistry	Discovery of Electron, Proton and Neutron, atomic number, isotopes and isobars. Thomson's model and its limitations. Rutherford's model and its limitations, Bohr's model and its limitations, concept of shells and subshells, dual nature of matter and light, de Broglie's relationship, Heisenberg uncertainty principle, concept	9Periods	NCERT Notebook &Well Prepared Notes	Oral questions,Reasonoin questions ,Short & long Questions, Weekly Quiz Paper



			of orbitals, quantum numbers, shapes of s, p and d orbitals, rules for filling electrons in orbitals - Aufbau principle, Pauli's exclusion principle and Hund's rule, electronic configuration of atoms, stability of half-filled and completely filled orbitals.			
July	25	Unit-2 Atomic Structure Unit-3 Classification of elements and periodicity in properties	Discovery of Electron, Proton and Neutron, atomic number, isotopes and isobars. Thomson's model and its limitations. Rutherford's model and its limitations, Bohr's model and its limitations, concept of shells and subshells, dual nature of matter and light, de Broglie's relationship, Heisenberg uncertainty principle, concept of orbitals, quantum numbers, shapes of s, p and d orbitals, rules for filling electrons in orbitals - Aufbau principle, Pauli's exclusion principle and Hund's rule, electronic configuration of atoms,	10Periods 8 Periods	NCERT Notebook & Well Prepared Notes NCERT Notebook & Well Prepared Notes	Oral questions,Reasonoin questions,Short & long Questions, Weekly Quiz Paper Oral questions,Reasonoin questions,Short & long Questions, Weekly Quiz Paper



	Unit-04	stability of half-filled and	3Periods	NCERT	Oral
	Chemical Bonding and	completely filled orbitals.		Notebook & Well	questions,Reasonoin
	molecular structure			Prepared Notes	questions ,Short &
		Significance of classification,			long Questions,
		brief history of the			Weekly Quiz Paper
		development of periodic			
		table, modern periodic law			
		and the present form of			
		periodic table, periodic trends			
		in properties of elements			
		-atomic radii, ionic radii, inert			
		gas radii, Ionization enthalpy,			
		electron gain enthalpy,			
		electronegativity, valency.			
		Nomenclature of elements			
		with atomic number greater			
		than 100.			
1					
		Valence electrons, ionic bond,			
		covalent bond, bond			
		parameters, Lewis structure,			
		polar character of covalent			
		ionia hand valance hand			
		theory resonance geometry			
		of acyalant moleculas idea			
		only)			
		omy),			



Aug.	23	Unit-04		10Periods	NCERT	Oral
-		Chemical Bonding and	Hydrogen bond, VSEPR		Notebook & Well	questions,Reasonoin
		molecular structure	theory, concept of		Prepared Notes	questions ,Short &
			hybridization, involving s, p			long Questions,
		•	and d orbitals and shapes of			Weekly Quiz Paper
			some simple molecules,		NCERT	Oral
			molecular orbital theory of	10 Periods	Notebook & Well	questions,Reasonoin
		Unit-05	homonuclear diatomic		Prepared Notes	questions ,Short &
		States of matter	molecules(qualitative		-	long Questions,
						Weekly Quiz Paper
			Three states of matter,			
			intermolecular interactions,			
			types of bonding, melting and			
			boiling points, role of gas	(Revision of Half		
			laws in elucidating the	yearly Exam-2021)		
			concept of the molecule,			
			Boyle's law, Charles law, Gay			
			Lussac's law, Avogadro's law,			
			ideal behaviour, empirical			
			derivation of gas equation,			
			Avogadro's number, ideal gas			
			equation. Deviation from			
			ideal behaviour, liquefaction			
			of gases, critical temperature,			
			kinetic energy and molecular			
			speeds (elementary idea),			
			Liquid State- vapour pressure,			
			viscosity and surface tension			
			(qualitative idea only, no			
			mathematical derivations.			



Sep.	25	Chapter-6 Chemical Thermodynamics	Concepts of System and types of systems, surroundings, work, heat, energy, extensive and intensive properties, state functions. First law of thermodynamics -internal energy and enthalpy, heat capacity and specific heat, measurement of □U and □H, Hess's law of constant heat summation, enthalpy of bond dissociation,	(Commencement of half Yearly Exam-2021) 8 Periods	NCERT Notebook & Well Prepared Notes	Oral questions,Reasonoin questions ,Short & long Questions, Weekly Quiz Paper
		Unit-7Chemical Equilibrium	combustion, formation, atomization, sublimation, phase transition, ionization, solution and dilution. Second law of Thermodynamics (brief introduction) Introduction of entropy as a state function, Gibb's energy change for spontaneous and non- spontaneous processes, criteria for equilibrium. Third law of thermodynamics (brief introduction). Equilibrium in physical and chemical processes, dynamic	8 Periods	NCERT Notebook &Well Prepared Notes	Oral questions,Reasonoin questions ,Short & long Questions, Weekly Quiz Paper



			nature of equilibrium, law of mass action, equilibrium constant, factors affecting equilibrium - Le Chatelier's principle, ionic equilibrium- ionization of acids and bases, strong and weak electrolytes, degree of ionization, ionization of poly basic acids, acid strength, concept of pH, hydrolysis of salts (elementary idea), buffer solution, Henderson Equation, solubility product, common ion effect (with illustrative examples)			
Oct.	17	Unit-8 Redox Reactions Unit-9 Hydrogen	Concept of oxidation and reduction, redox reactions, oxidation number, balancing redox reactions, in terms of loss and gain of electrons and change in oxidation number, applications of redox reactions. Position of hydrogen in periodic table, occurrence, isotopes, preparation, properties and uses of hydrogen, hydrides-ionic covalent and interstitial;	5 Periods 5 Periods	NCERT Notebook &Well Prepared Notes	Oral questions,Reasonoin questions ,Short & long Questions, Weekly Quiz Paper



		Unit-10 S-Block elements	physical and chemical properties of water,heavy water, hydrogen peroxide -preparation, reactions and structure and use; hydrogen as a fuel Group 1 and Group 2 Elements General introduction, electronic configuration, occurrence, anomalous properties of the first element of each group, diagonal relationship. Sodium Carbonate, Sodium Chloride, Sodium Hydroxide and Sodium Hydrogen carbonate, Biological importance of Sodium and	5 Periods	NCERT Notebook & Well Prepared Notes	Oral questions,Reasonoin questions ,Short & long Questions, Weekly Quiz Paper
	• •		Fotassium		MORDE	
Nov.	20	Unit-11 Some p-Block Elements	General introduction, electronic configuration, occurrence, variation of properties, oxidation states, trends in chemical reactivity, anomalous behaviour of first elements. Carbon-catenation, allotropic forms, physical and chemical properties;	5 Periods	NCERT Notebook &Well Prepared Notes	Oral questions,Reasonoin questions ,Short & long Questions, Weekly Quiz Paper



	Unit-12 Organic Chemistry -Some Basic Principles and Techniques	General introduction, methods of purification, qualitative and quantitative analysis, classification and IUPAC nomenclature of organic compounds. Electronic displacements in a covalent bond: inductive effect, electromeric effect, resonance and hyper conjugation. Homolytic and heterolytic fission of a covalent bond: free radicals, carbocations, carbanions, electrophiles and nucleophiles, types of organic reactions <b>Aliphatic Hydrocarbons:</b> Alkanes - Nomenclature, isomerism, conformation (ethane only), physical properties, chemical reactions including free radical mechanism of halogenation, combustion and pyrolysis. Alkenes - Nomenclature,	8 Periods 5 Periods	NCERT Notebook & Well Prepared Notes NCERT Notebook & Well Prepared Notes	Oral questions,Reasonoin questions,Short & long Questions, Weekly Quiz Paper Oral questions,Reasonoin questions,Short & long Questions, Weekly Quiz Paper
		Alkenes - Nomenclature, structure of double bond (ethene), geometrical isomerism, physical			



			properties, methods of preparation, chemical reactions: addition of hydrogen, halogen, water, hydrogen halides (Markovnikov's addition and peroxide effect), ozonolysis, oxidation, mechanism of electrophilic addition. Alkynes - Nomenclature, structure of triple bond (ethyne), physical properties, methods of preparation, chemical reactions: acidic character of alkynes, addition reaction of - hydrogen, halogens, hydrogen halides and water.			
Dec.	19	Unit-13 <b>Hydrocarbons</b>	Aromatic Hydrocarbons: Introduction, IUPAC nomenclature, benzene: resonance, aromaticity, chemical properties: mechanism of electrophilic substitution. Nitration, sulphonation, halogenation, Friedel Craft's alkylation and acylation	4 Period	NCERT Notebook & Well Prepared Notes	Oral questions,Reasonoin questions ,Short & long Questions, Weekly Quiz Paper



# Annual Planner 2021-22

		Unit-14 <b>Environmental</b> Chemistry	Environmental pollution - air, water and soil pollution, chemical reactions in atmosphere, smog, major atmospheric pollutants, acid rain, ozone and its reactions, effects of depletion of ozone layer, greenhouse effect and global warming- pollution due to industrial wastes, green chemistry as an alternative tool for reducing pollution, strategies for control of environmental pollution.	8 Periods (Revision Pre- Annual Exam-2021)	NCERT Notebook &Well Prepared Notes	Oral questions,Reasonoin questions ,Short & long Questions, Weekly Quiz Paper
Jan.	21			(Revision &Commencement of pre-Annual Exam-2021)		

Class - Xl

	Subject -PE									
Month	No. of working days	Name of the chapter	Topic / Sub topic	No of periods	TL resources	Mode of assessment				
JUNE	12	1.Changing Trends &Career in Physical Education	Meaning & definition of Physical Education Aims &Objectives of Physical Education	08	Lecture Method / Activity Based	Weekly Quiz,Question answer based on topic,				



		2.Olympic Value Education	Career Options in Physical Education Competitions in various sports at National and International Level Khelo India Program Olympics, Paralympics and Special Olympics	04		Assignments Unit Test-1
JULY	25	2.OlympicValueEducation 3.Physical Fitness, Wellness &Lifestyle	OlympicSymbols,Ideals,Obj ectives&ValuesofOlympisn InternationalOlympicCom mittee IndianOlympicAssociation Meaning& Importance of Physical Fitness, Wellness & Lifestyle Components of Physical Fitness and Wellness Components of Health related fitness	05 09	Lecture Method / Activity Based	Pre Mid term Weekly Quiz,Question answer based on topic, Assignments
AUGUST	23	4.PhysicalEducation&SportsforCWS N(ChildrenwithSpecialNeeds-Divya ng)	Aims&objectivesofAdaptiv ePhysicalEducation OrganizationpromotingAda ptiveSports(SpecialOlympic sBharat;Paralympics	9	Lecture Method / Activity Based	Weekly Quiz,Question answer based on topic, Assignments



				-	
		Deaflympics)			HALF YEARLY
		ConceptofInclusion, its need			EXAMINATION
		andImplementation			
		Roleofvariousprofessionalsf			
		orchildrenwithspecialneeds			
		(Counsellor, Occupational			
		Therapist, Physiotherapist, P			
		hysicalEducationTeacher,Sp			
	5 Voga	eechTherapist&SpecialEdu	00		
	3.10ga	cator)	09		
		Meaning & Importance of			
		Yoga			
		Elements of Yoga			
		Introduction - Asanas,			
		Pranayam, Meditation &			
		Yogic Kriyas			
		Yoga for concentration&			
		related Asanas [Sukhasana:			
		Tadasana; Padmasana&			
		Shashankasand,			
		Naukasana, Vrikshasana			
		(Tree pose), Garudasana	05		
	6.Physical Activity &Leadership	(Eagle pose)]			
	Training	<b>Relaxation Techniques for</b>			
		improving			
		concentration-Yog-nidra			
		Leadership Qualities & Role			
		of a Leader			



			Creating leaders through Physical Education Meaning, objectives & types of Adventure Sports (Rock Climbing, Trekking, River Rafting, Mountaineering, Surfing and Para Gliding) Safety measures to prevent Sports Injuries			
SEPTEMBER	24	7.Test, Measurement & Evaluation 8.Fundamentals of Anatomy &Physiology &Kinesiology in Sports	Define Test, Measurement & Evaluation Importance of Test, Measurement & Evaluation in Sports Calculation of BMI & Waist- Hip Ratio Somato Types (Endomorphy, Mesomorphy & Ectomorphy) Measurement of Health related fitness Definition, Importance of Anatomy, Physiology & Kinesiology Function of Skeleton System, Classification of Bones& Types of Joints	08	Lecture Method / Activity Based	Weekly Quiz,Question answer based on topic, Assignments



			Properties and functions of Muscles Function & Structure of Respiratory System and Circulatory System			
OCTOBER	19	8.FundamentalsofAnatomy&Physio logy&KinesiologyinSports	Equilibrium-Dynamic&Stati candCentreofGravityandits applicationinSports	06		
		9.Psychology & Sports	Definition & Importance of Psychology in Physical Education & Sports Define & Differentiate Between Growth & Development Developmental Characteristics at Different Stages of Development Adolescent Problems &Their Management	13		
NOVEMBER	20	10.Training and Doping in Sports	Meaning & Concept of Sports Training Principles of Sports Training Warming up & Limbering down Skill, Technique & Style	20	Lecture Method / Activity Based	Weekly Quiz,Question answer based on topic, Assignments UnitTest-2



DECEMBER	19	REVISION	Concept & classification of Doping Prohibited Substances & their Side Effects Dealing with Alcohol and Substance Abuse			
JANUARY	23	REVISION				
FEBRUARY	23	REVISION				Annual examination
		·	Subject – Hindi			
MAY	09	(गद्य)1.नमक का दारोगा	भाषा की चित्रात्मकता,लोकोक्तियाँ और मुहावरे, लेखक केमनोभावों को समझना	5	एन सी ई आर टी पाठ्यपुस्तक आरोह तथा वितान , अभिव्यक्ति और माध्यम यू-ट्यूब वीडियोज़	मौखिक प्रश्न , लिखित अभ्यास-पत्र बहुविकल्पीय प्रश्न वीकलीक्विज्ञ
		(काव्य)1.हम तौ एक एक करि जाना	पदों का गायन, भाव-सौंदर्य तथा शिल्प-सौंदर्य	4		
JUNE	11	(गद्य)2-मियाँ नसीरुद्दीन	विषयवस्तु का बोध तथा व्याख्या, शब्दों का प्रसंगानुकूल अर्थ समझना	4	एन सी ई आर टी पाठ्यपुस्तक आरोह तथा वितान , अभिव्यक्ति और माध्यम यू-ट्यूब वीडियोज़	मौखिक प्रश्न , लिखित अभ्यास-पत्र बहुविकल्पीय प्रश्न वीकलीक्विज़



		(काव्य)2- मेरे तो गिरधर गोपाल	पदों का गायन, भाव- सौंदर्य तथा शिल्प- सौंदर्य	3		
		(पूरकपाठ्य-पुस्तक ) वितान 1- भारतीय गायिकाओं में बेजोड़: लता मंगेशकर	प्रत्यास्मरण,विषयवस्तु का बोध एवं व्याख्या, लेखक के मनोभावों को समझना	4		
JULY	25	(गद्य) 3- अपूके साथ ढ़ाई साल	विषय-वस्तु का बोध एवं व्याख्या,शब्दों का प्रसंगानुकूल अर्थ,तार्किकता	6	एन सी ई आर टी पाठ्यपुस्तक आरोह तथा वितान , अभिव्यक्ति और माध्यम यू-ट्यूब वीडियोज़	मौखिक प्रश्न , लिखित अभ्यास-पत्र बहुविकल्पीय प्रश्न वीकलीक्विज़
		(जन संचार माध्यम और लेखन) 1.जनसंचार माध्यम –संचार की परिभाषा तथा प्रकार	आलोचनात्मकचिंतन,तार्किकता,मूल्यांकन, विश्लेषण	7	एन सी ई आर टी पाठ्यपुस्तक आरोह तथा वितान , अभिव्यक्ति और माध्यम यू-ट्यूब वीडियोज़	मौखिक प्रश्न , लिखित अभ्यास-पत्र बहुविकल्पीय प्रश्न वीकलीक्विज्ञ
		( गद्य ) 4- विदाई संभाषण	विषय-वस्तु का बोध एवं व्याख्या,शब्दों का प्रसंगानुकूल अर्थ,तार्किकता	6	एन सी ई आर टी पाठ्यपुस्तक आरोह तथा वितान , अभिव्यक्ति और माध्यम यू-ट्यूब वीडियोज़	मौखिक प्रश्न , लिखित अभ्यास-पत्र बहुविकल्पीय प्रश्न वीकलीक्विज़
		(जनसंचार माध्यम और लेखन) 2. जनसंचार की विशेषताएं और कार्य	तार्किकता,आलोचनात्मक चिंतन, अभिव्यक्ति में मौलिकता	6	एन सी ई आर टी पाठ्यपुस्तक आरोह तथा वितान , अभिव्यक्ति और माध्यम यू-ट्यूब वीडियोज़	मौखिक प्रश्न , लिखित अभ्यास-पत्र बहुविकल्पीय प्रश्न वीकलीक्विज़
AUGUST	23	( काव्य) 4. घर की याद	कविता पाठ, भाव-सौंदर्य तथा शिल्प- सौंद, अर्थ ग्रहण,व्याख्या	5	एन सी ई आर टी पाठ्यपुस्तक	मौखिक प्रश्न ,



		( काव्य ) 5- चंपा का ले काले अक्षर नहीं चीन्हती			आरोह तथा वितान ,	लिखित
SEPTEMBE	25		विषयवस्तु का बोध एवं व्याख्या, शब्दों का		अभिव्यक्ति और माध्यम	अभ्यास-पत्र
R	-		प्रसंगानुकूल अर्थसमझना,सृजनात्मकता।	4	यू-ट्यूब वीडियोज़	बहुविकल्पीय प्रश्न
						वीकलीक्विज़
			तार्किकता, आलोचनात्मक,अभिव्यकित में			
		( वितान) 2- राजस्थान की रजत बूँदें	मौलिकता।			
		·	· · · · · · · · · · · · · · · · · · ·			
		(जनसंचार माध्यम आर लखन)	लखक के मनाभावा का समझना, शब्दा का	5		
		3. भारत म जनसंचार माध्यमा का विकास	प्रसंगानुकूलअथ समझना।	5		
			गायन, भावसादय तथा शिल्प सादय, उदू			
				4		
			विषय-वस्तु का बाध एव व्याख्या,शब्दा का			
			प्रसंगानुकूल अथ,तााककता अप्रजेन प्रचार नार्किकना	4		
		(काव्य) 6- गज़ल (जन्म) ६- नजीन के जनीक	आलाचनात्मक ाचतन, तााककता, निःरेषणाः अभिन्यनि नर्तेगौनिकनाः			
			विर्व्लेषण,आमव्याकतममालिकता।	4		
		4. जन संचार माध्यमा का प्रमाव		4		
		<b>प्रसरातनि</b> कार्य		Λ		
				13		
				10		
OCTOBER	17	(गद्य)7. रजनी	विषय-वस्तु का बोध एवं व्याख्या,शब्दों का	. 5	एन सी ई आर टी	मौखिक प्रश्न ,
			प्रसंगानुकूल अर्थ,तार्किकता		पाठ्यपुस्तक	
					आरोह तथा वितान ,	लिखित
					अभिव्यक्ति और माध्यम	अभ्यास-पत्र
					यू-ट्यूब वीडियोज़	बहुविकल्पीय प्रश्न
						वीकलीक्विज़
		(काव्य)7. हेभूख! मतमचल	भावार्थ, सौंदर्य बोध, अर्थ गाम्भीर्य	4		



		( पत्रकारिता के विविध आयाम ) 1.पत्रकारिता , समाचार तथा तत्व	आलोचनात्मक चिंतन, तार्किकता, विश्लेषण,अभिव्यक्तिमें मौलिकता	5		
		2. संपादन तथा पत्रकारिता के अन्य आयाम	आलोचनात्मक चिंतन, तार्किकता, विश्लेषण, अभिव्यक्तिमें मौलिकत	3		
NOVEMBER	20	गद्य)8- जामुन का पेड़	विषय-वस्तु का बोध एवं व्याख्या,शब्दों का प्रसंगानुकूल अर्थ,तार्किकता	5	एन सी ई आर टी पाठ्यपुस्तक आरोह तथा वितान , अभिव्यक्ति और माध्यम यू-ट्यूब वीडियोज़	मौखिक प्रश्न , लिखित अभ्यास-पत्र बहुविकल्पीय प्रश्न वीकलीक्विज्ज
		(काव्य )8- सबसे खतरनाक	अर्थ गाम्भीर्य, भाव सौदर्य तथा शिल्पसौंदर्य	5	एन सी ई आर टी पाठ्यपुस्तक आरोह तथा वितान , अभिव्यक्ति और माध्यम यू-ट्यूब वीडियोज़	मौखिक प्रश्न , लिखित अभ्यास-पत्र बहुविकल्पीय प्रश्न वीकलीक्विज़



		( गद्य) 9- भारत माता	विषय-वस्तु का बोध एवं व्याख्या,शब्दों का प्रसंगानुकूल अर्थ,तार्किकता		एन सी ई आर टी पाठ्यपुस्तक	मौखिक प्रश्न ,
					आरोह तथा वितान ,	लिखित
					अभिव्यक्ति और माध्यम	अभ्यास-पत्र
					यू-ट्यूब वीडियोज़	बहुविकल्पीय प्रश्न
						वीकलीक्विज़
		3. पत्रकारिता के प्रमुख प्रकार	आलोचनात्मक चिंतन, तार्किकता,	5	एन सी ई आर टी	मौखिक प्रश्न ,
			विश्लेषण,अभिव्यक्तिमें मौलिकता		पाठ्यपुस्तक	
					आरोह तथा वितान ,	लिखित
					अभिव्यक्ति और माध्यम	अभ्यास-पत्र
					यू-ट्यूब वीडियोज़	बहुविकल्पीय प्रश्न
						वीकलीक्विज़
DECEMBER	19	(काव्य )9. आओ मिलकर बचाएँ	कविता पाठ, सौंदर्यबोध, अर्थ गाम्भीर्य,	5	एन सी ई आर टी	मौखिक प्रश्न ,
			मौलिकता		पाठ्यपुस्तक	
					आरोह तथा वितान ,	लिखित
					अभिव्यक्ति और माध्यम	अभ्यास-पत्र
					यू-ट्यूब वीडियोज़	बहुविकल्पीय प्रश्न
						वीकलीक्विज़
		(वितान )3- आलो आँधारि	विषय वस्तु का बोध एवं व्याख्या,	6	एन सी ई आर टी	मौखिक प्रश्न ,
			प्रसंगानुकूलअर्थ, लेखिकाके मनोभावोंको		पाठ्यपुस्तक	
			समझना		आरोह तथा वितान ,	लिखित
					अभिव्यक्ति और माध्यम	अभ्यास-पत्र
					यू-ट्यूब वीडियोज़	बहुविकल्पीय प्रश्न
						वीकलीक्विज़
		( गद्य)10. आत्मा का ताप	विषय-वस्तु का बोध एवं व्याख्या,शब्दों का	4	एन सी ई आर टी	मौखिक प्रश्न ,
			प्रसंगानुकूल अर्थ,तार्किकता		पाठ्यपुस्तक	
					आरोह तथा वितान ,	लिखित
					अभिव्यक्ति और माध्यम	अभ्यास-पत्र
					यू-ट्यूब वीडियोज़	बहुविकल्पीय प्रश्न
						वीकलीक्विज़



	4. समाचार माध्यमों में मौजूदा रुझान	आलोचनात्मक चिंतन, तार्किकता, विश्लेषण,अभिव्यक्तिमें मौलिकता	4	एन सी ई आर टी पाठ्यपुस्तक आरोह तथा वितान , अभिव्यक्ति और माध्यम प दयन वीदिपोप्त	मौखिक प्रश्न , लिखित अभ्यास-पत्र बद्धविकच्यीम प्रश
				पू-एपूर्व पाछिपाछ	बहुापपरपाय प्रश्न वीकलीक्विज़
	पुनरावृत्ति कार्य प्राच्यान्ति कार्य			एन सी ई आर टी पाठ्यपुस्तक आरोह तथा वितान , अभिव्यक्ति और माध्यम यू-ट्यूब वीडियोज़	मौखिक प्रश्न , लिखित अभ्यास-पत्र बहुविकल्पीय प्रश्न वीकलीक्विज्ञ
JANUARY FEBRUARY	पुनरावृत्ति कार्य पुनरावृत्ति कार्य वार्षिक परीक्षा				
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