

## STUDY PLAN : 12TH BOARD (BASED ON NCERT PATTERN)

Class Schedule	Subject	Physics	Chemistry
<b>PART - A</b>			
Month/Day	Date/Slot	4:00 PM to 4:45 PM	6:00 PM to 6:45 PM
December/Wednesday	29	Electric Charges	Classification of Crystalline Solids
December/Thursday	30	Coulombs Law and Numericals	Crystal Lattices and Unit Cells
December/Friday	31	Electric Fields	Closed Packed Structures
December/Saturday	1	<b>Doubt Session</b>	<b>Doubt Session</b>
December/Sunday	2	<b>Pre Board Model Test/Practice Test</b>	
December/Monday	3	Dipole and Dipole in Electric Field	Imperfections in Solids
December/Tuesday	4	Gauss Law and Its Applications	Electrical Properties
December/Wednesday	5	Potential Energy and Potential	Expressing Concentration of Solutions
December/Thursday	6	Equipotential Surface	Vapor Pressure of Liquid Solutions
December/Friday	7	Potential Energy of Dipole in Electric field	Ideal and Non-ideal Solutions
January/Saturday	8	<b>Doubt Session</b>	<b>Doubt Session</b>
January/Sunday	9	<b>Pre Board Model Test/Practice Test</b>	
January/Monday	10	Properties of Conductor, Shielding	Colligative Properties and Determination of Molar Mass
January/Tuesday	11	Capacitor	Abnormal Molar Mass
January/Wednesday	12	Current and Drift velocity	Electrochemical Cells
January/Thursday	13	Limitation of Ohms Law and Colour Coding	Galvanic Cells
January/Friday	14	Circuit Theory: Resistance in Series and Parallel	Nernst Equation
January/Saturday	15	<b>Doubt Session</b>	<b>Doubt Session</b>
January/Sunday	16	<b>Pre Board Model Test/Practice Test</b>	
January/Monday	17	Circuit Theory: Cell and Numericals	Conductance of Electrolytic Solutions
January/Tuesday	18	Circuit Theory: Wheatstone Bridge, Meter Bridge	Corrosion
January/Wednesday	19	Circuit Theory: Potentiometer	Rate of a Chemical Reaction
January/Thursday	20	Magnetic Field: Biot Savarts Law	Integrated Rate Equations
January/Friday	21	Force on Moving charge in Magnetic field	Temperature Dependence of the Rate of a Reaction
January/Saturday	22	<b>Doubt Session</b>	<b>Doubt Session</b>

January/Sunday	23	<b>Pre Board Model Test/Practice Test</b>	
January/Monday	24	Force Between Current Carrying Wire	Factors Influencing Rate of a Reaction
January/Tuesday	25	Magnetic Field: Torque In Loop	Collision Theory of Chemical Reactions
January/Wednesday	26	Magnetic Dipole Moment	Adsorption
January/Thursday	27	Moving coil galvanometer	Catalysis
January/Friday	28	Magnetism and Gauss law	Colloids
January/Saturday	29	<b>Doubt Session</b>	<b>Doubt Session</b>
January/Sunday	30	<b>Pre Board Model Test/Practice Test</b>	
January/Monday	31	Angle of dip, Declination	Classification of Colloids
January/Tuesday	1	Diamagnetic, Paramagnetic and Ferromagnetic Materials	Colloids around us
January/Wednesday	2	Magnetic Intensity	Concentration of Ores
January/Thursday	3	Faradays Law and Lenz's Law	Thermodynamic Principle of Metallurgy
January/Friday	4	Electromagnetic Induction: Numericals	Electrochemical Principles of Metallurgy
January/Saturday	5	<b>Doubt Session</b>	<b>Doubt Session</b>
January/Sunday	6	<b>Pre Board Model Test/Practice Test</b>	
January/Monday	7	Electromagnetic Induction: Inductance	Refining
February/Tuesday	8	Electromagnetic Induction: AC generator	Group 15 Elements
February/Wednesday	9	Phasor	Nitric Acid
February/Thursday	10	Pure R, L, C	Chlorine 16 Elements
February/Friday	11	Alternate Current: Resonance and Numericals	Oxoacids of Sulphur
February/Saturday	12	<b>Doubt Session</b>	<b>Doubt Session</b>
February/Sunday	13	<b>Pre Board Model Test/Practice Test</b>	
February/Monday	14	LC oscillation and Transformer	Group 17 Elements
February/Tuesday	15	Maxwell equation, Displacement current	Group 18 Elements
February/Wednesday	16	Reflection, Spherical mirror	Electronic Configuration of the D-Block Elements
February/Thursday	17	Geometrical Optics: Numericals	General Properties of the Transition Elements ( d-Block)
February/Friday	18	Refraction, Glass slab	Some important compounds of transition elements
February/Saturday	19	<b>Doubt Session</b>	<b>Doubt Session</b>
February/Sunday	20	<b>Pre Board Model Test/Practice Test</b>	
February/Monday	21	TIR, Prism	The Lanthanoids
February/Tuesday	22	Refraction at Spherical surface	The Actinoids

February/Wednesday	23	Lens	Werner's theory of Coordination Compounds
February/Thursday	24	Geometrical Optics: Numericals	Nomenclature of Coordination Compounds
February/Friday	25	Microscope	Isomerism in Coordination Compounds
February/Saturday	26	<b>Doubt Session</b>	Importance and Applications of Coordination Compounds
February/Sunday	27	<b>Pre Board Model Test/Practice Test</b>	
February/Monday	28	Telescope	Methods of Preparation of Haloalkanes
February/Tuesday	1	Interference	Preparation of Haloarenes
February/Wednesday	2	Doppler effect	Haloalkanes and Haloarenes: Physical Properties
February/Thursday	3	Wave Optics: Numericals	Haloalkanes and Haloarenes: Chemical Reactions
February/Friday	4	Wave Optics: Diffraction	Preparation of Aldehydes and Ketones
February/Saturday	5	<b>Doubt Session</b>	Aldehydes, Ketones and Carboxylic Acids: Chemical Reactions
February/Sunday	6	<b>Pre Board Model Test/Practice Test</b>	
February/Monday	7	Wave Optics: Polarization	Methods of Preparation of Carboxylic Acids
March/Tuesday	8	Photoelectric effect	Aldehydes, Ketones and Carboxylic Acids: Physical Properties
March/Wednesday	9	Dual nature of Radiation and Matter: Numericals	Aldehydes, Ketones and Carboxylic Acids: Chemical Reactions
March/Thursday	10	Davison and Germer Experiment	Preparation of Amines, Amines: Chemical Reactions
March/Friday	11	Atomic structure	Method of Preparation of Diazonium Salts
March/Saturday	12	Atoms: Numericals	Carbohydrates, Proteins
March/Sunday	13	<b>Pre Board Model Test/Practice Test</b>	
March/Monday	14	Radioactive Decay	Nucleic acids
March/Tuesday	15	Nuclei: Numericals	Alcohols and Phenols
March/Wednesday	16	Fission and Fusion	Some Commercially Important Alcohols
March/Thursday	17	Intrinsic and Extrinsic Semiconductor	Ethers
March/Friday	18	Diode	Classification of Polymers
March/Saturday	19	Logic Gates	Therapeutic Action of Different Classes of Drugs
March/Sunday	20	<b>Pre Board Model Test/Practice Test</b>	
<b>PART - B</b>			
Class Schedule	Subject	Maths	Biology
Month/Day	Date/Slot	5:00 PM to 5:45 PM	5:00 PM to 5:45 PM

December/Wednesday	29	Types of Relation	A Sexual Reproduction, Sexual reproduction
December/Thursday	30	Types of Function	Sexual Reproduction
December/Friday	31	Composition of Function	Flower
December/Saturday	1	<b>Doubt Session</b>	<b>Doubt Session</b>
December/Sunday	2	<b>Pre Board Model Test/Practice Test</b>	
December/Monday	3	Inverse of Function	Pre-fertilization: Structures and Events
December/Tuesday	4	Binary Operation	Double Fertilization, Post Fertilization
December/Wednesday	5	Basic Concepts	Male Reproductive System, Female Reproductive System
December/Thursday	6	Properties of Inverse Trigonometric Function	Gametogenesis, Menstrual Cycle
December/Friday	7	Properties of Inverse Trigonometric Function	Fertilization and Implantation, Pregnancy and Embryonic Development, Parturition and Lactation
January/Saturday	8	<b>Doubt Session</b>	<b>Doubt Session</b>
January/Sunday	9	<b>Pre Board Model Test/Practice Test</b>	
January/Monday	10	Definition and Types, Equality of Matrices	Reproductive Health – Problems and Strategies, Population Explosion and Birth Control
January/Tuesday	11	Operations and Multiplication of Matrices	Medical Termination of Pregnancy, Sexually Transmitted Diseases, Infertility
January/Wednesday	12	Transpose And Its Properties, Elementary Operations	Mendel's Law of Inheritance
January/Thursday	13	Problems Based on Elementary Operations and Mis.	Inheritance of One and Two Genes
January/Friday	14	Properties of Determinants	Sex Determination, Mutation, Genetic Disorders
January/Saturday	15	<b>Doubt Session</b>	<b>Doubt Session</b>
January/Sunday	16	<b>Pre Board Model Test/Practice Test</b>	
January/Monday	17	Problems Based on Properties of Determinant and Area of Triangle	The DNA, The Search of Genetic Material, RNA World
January/Tuesday	18	Minor, Cofactor, Adjoint of Matrix	Replication, Transcription, Genetic Code
January/Wednesday	19	Singular and Non-Singular Matrix, Inverse of Matrix	Translation, Regulation of Gene Expression, Human Genome Project, DNA Finger Printing
January/Thursday	20	Solution of Linear Equations Matrix and Cramer Rule	Origin of Life, Evolution of Life Forms- A Theory, Evidences of Evolution, Adaptive Radiation,
January/Friday	21	Continuity of a Function and Its Properties	Biological Evolution, Mechanical Evolution, Hardy Weinberg Principle

January/Saturday	22	Doubt Session	Doubt Session
January/Sunday	23	Pre Board Model Test/Practice Test	
January/Monday	24	Differentiability of a Function and Problems	A brief account of Evolution, Origin and Evolution of Man
January/Tuesday	25	Differentiation of Composite Function and Chain Rule	Common Disease in Humans, Immunity, AIDS, Cancer, Drug and Alcohol abuse
January/Wednesday	26	Differentiation of Implicit Function and Inverse Trigonometric Function	Animal Husbandry, Plant Breeding
January/Thursday	27	Differentiation of Exponential Function and Logarithmic Function	Single Cell Protein, Tissue Culture
January/Friday	28	Product and Quotient Rule, Parametric Differentiation	Microbes in Household Products, Industrial Products, Sewage treatment
January/Saturday	29	Doubt Session	Doubt Session
January/Sunday	30	Pre Board Model Test/Practice Test	
January/Monday	31	Second Order Derivatives and Rolle's Theorem & M.V.T.	Microbes in Production of Biogas, Biocontrol Agents, Biofertilizers
January/Tuesday	1	Rate of Change	Principles of Biotechnology
January/Wednesday	2	Increasing and Decreasing Function	Tools of Recombinant DNA Technology
January/Thursday	3	Tangent and Normal	Processes of Recombinant DNA Technology
January/Friday	4	Maxima and Minima	Biotechnology Application in Agriculture
January/Saturday	5	Doubt Session	Doubt Session
January/Sunday	6	Pre Board Model Test/Practice Test	
January/Monday	7	Word Problem Related to Maxima and Minima	Biotechnology Application in Medicines
February/Tuesday	8	Approximation and Misc.	Transgenic Animals
February/Wednesday	9	Indefinite Integration & Its Geometrical Meaning	Organisms and Its Environment
February/Thursday	10	Methods of Integration	Populations
February/Friday	11	Integration Using Trigonometric Identities	Ecosystem- Structure and Function
February/Saturday	12	Doubt Session	Doubt Session
February/Sunday	13	Pre Board Model Test/Practice Test	
February/Monday	14	Integration of Some Particular Function	Productivity, Decomposition, Energy Flow
February/Tuesday	15	Integration by parts	Ecological Pyramids, Ecological Succession
February/Wednesday	16	Integration Using Partial Fraction Method	Nutrient Cycling
February/Thursday	17	Definite Integration	Ecosystem Services

February/Friday	18	Definite Integration by Substitution	Biodiversity
February/Saturday	19	Some Properties and Theorem of Definite Integration	<b>Doubt Session</b>
February/Sunday	20	<b>Pre Board Model Test/Practice Test</b>	
February/Monday	21	Problems Based on Properties	Biodiversity Conservation
February/Tuesday	22	Area Under Simple Curve and Bounded By Line and Curve	Air Pollution and Its control
February/Wednesday	23	Area Between Two Curves	Water pollution and its Control
February/Thursday	24	Problems of Area Under Curve	Solid waste
February/Friday	25	Introduction and Solution of Differential Equation	Agrochemicals and Their Side effects, Radioactive Wastes,
February/Saturday	26	Formation of Differential Equation	<b>Doubt Session</b>
February/Sunday	27	<b>Pre Board Model Test/Practice Test</b>	
February/Monday	28	Methods of Solving First Order and First Degree D.E.	Green House Effects and Global Warming, Ozone Depletion in the Stratosphere
February/Tuesday	1	Linear Differential Equation	Degradation by Improper Resource Utilization and Maintenance
February/Wednesday	2	Basics and Vector Types	Deforestation
February/Thursday	3	Operation on Vectors	Model Paper/Revision
February/Friday	4	Scalar/Dot Product	Model Paper/Revision
February/Saturday	5	Vector/ Cross product	<b>Doubt Session</b>
February/Sunday	6	<b>Pre Board Model Test/Practice Test</b>	
February/Monday	7	DR's and DC's and Equation of Line One Point Form	Model Paper/Revision
March/Tuesday	8	Equation of Line and Angle Between Line and Shortest Distance	Model Paper/Revision
March/Wednesday	9	Plane and Its Equation in Different Forms	Model Paper/Revision
March/Thursday	10	Collinearity of Plane and Distance of Point From Plane	Model Paper/Revision
March/Friday	11	Line and Plane	Model Paper/Revision
March/Saturday	12	Formation and Graphical Methods to Solve LPP	<b>Doubt Session</b>
March/Sunday	13	<b>Pre Board Model Test/Practice Test</b>	
March/Monday	14	Different Types of LPP	Model Paper/Revision
March/Tuesday	15	Conditional Probability and Multiplication Theorem	Model Paper/Revision
March/Wednesday	16	Total Probability and Baye's Theorem	Model Paper/Revision
March/Thursday	17	Random Variable, Probability Distribution	Model Paper/Revision

March/Friday	18	Bernoulli Trials and Binomial Distribution	Model Paper/Revision
March/Saturday	19	Doubt Session	Doubt Session
March/Sunday	20	Pre Board Model Test/Practice Test	
<b>PART - C</b>			
Class Schedule	Subject	Hindi	English
Month/Day	Date/Slot	7:00 PM to 7:45 PM	8:00 PM to 8:45 PM
December/Wednesday	29	रस	Narration
December/Thursday	30		
December/Friday	31	रस	Narration
December/Saturday	1	Doubt Session	Doubt Session
December/Sunday	2	Pre Board Model Test/Practice Test	
December/Monday	3	अलंकार	Synthesis
December/Tuesday	4		
December/Wednesday	5	अलंकार	Synthesis
December/Thursday	6		
December/Friday	7	छंद	Synthesis
January/Saturday	8	Doubt Session	Doubt Session
January/Sunday	9	Pre Board Model Test/Practice Test	
January/Monday	10	छंद	Transformation
January/Tuesday	11		
January/Wednesday	12	राष्ट्र का स्वरूप	Transformation
January/Thursday	13		
January/Friday	14	अशोक के फूल	Transformation
January/Saturday	15	Doubt Session	Doubt Session
January/Sunday	16	Pre Board Model Test/Practice Test	
January/Monday	17	सिद्धांत और नीति के संपादित	Syntax
January/Tuesday	18		
January/Wednesday	19	भाषा व आधुनिकता	Syntax
January/Thursday	20		
January/Friday	21	तेजस्वी मन के संपादित अंश	Idioms
January/Saturday	22	Doubt Session	Doubt Session

January/Sunday	23	Pre Board Model Test/Practice Test	
January/Monday	24	युग प्रवर्तक लेखको के नाम	Phrases
January/Tuesday	25		
January/Wednesday	26	काव्य साहित्य का विकास प्रतिनिधि कवि व कृतिया	Synonyms
January/Thursday	27		
January/Friday	28	काव्य साहित्य का विकास प्रतिनिधि कवि व कृतिया	Antonyms
January/Saturday	29	Doubt Session	Doubt Session
January/Sunday	30	Pre Board Model Test/Practice Test	
January/Monday	31	प्रेम माधुरी	One word substitution
January/Tuesday	1		
January/Wednesday	2	पावन कृतिका	Homophones
January/Thursday	3		
January/Friday	4	गङ्गा अवतरण	Translation from Hindi to English
January/Saturday	5	Doubt Session	Doubt Session
January/Sunday	6	Pre Board Model Test/Practice Test	
January/Monday	7	कैकेयी का अनुत्पाप	Translation from Hindi to English
February/Tuesday	8		
February/Wednesday	9	श्रद्धा मनु	Article
February/Thursday	10		
February/Friday	11	बादल राग	Article
February/Saturday	12	Doubt Session	Doubt Session
February/Sunday	13	Pre Board Model Test/Practice Test	
February/Monday	14	नौका विहार ,बापू के प्रति	Letter to the Editor
February/Tuesday	15		
February/Wednesday	16	गीत	Letter to the Editor
February/Thursday	17		
February/Friday	18	अभिनव मनुष्य	Complaint letter
February/Saturday	19	Doubt Session	Doubt Session
February/Sunday	20	Pre Board Model Test/Practice Test	
February/Monday	21	मैंने आहुती बनकर देखा है,हिरोशिमा	Complaint letter
February/Tuesday	22		Comprehension



February/Wednesday	23	पंच लाइट	Comprehension
February/Thursday	24		The last lesson
February/Friday	25	बहादुर	Lost spring
February/Saturday	26	Doubt Session	Doubt Session
February/Sunday	27	Pre Board Model Test/Practice Test	
February/Monday	28	कर्मनशा की हार	Deep Water
February/Tuesday	1		The Rattrap
February/Wednesday	2	संधि	Indigo
February/Thursday	3		My Mother at sixty six
February/Friday	4	संधि	An elementary School classroom in a slum
February/Saturday	5	Doubt Session	Doubt Session
February/Sunday	6	Pre Board Model Test/Practice Test	
February/Monday	7	समास	Keeping Quiet
March/Tuesday	8	शब्द रूप	A thing of beauty
March/Wednesday	9	धातु रूप	Aunt Jennifr's Tiger
March/Thursday	10	प्रत्यय	The Third level
March/Friday	11	विभक्ति परिचय	The Tiger King
March/Saturday	12	Doubt Session	Doubt Session
March/Sunday	13	Pre Board Model Test/Practice Test	
March/Monday	14	हिन्दी वाक्य का संस्कृत अनुवाद	Journey to the end of the Earth
March/Tuesday	15	संस्कृत भाषा महत्व & आत्मज्ञ एवं सर्वज्ञ	The Enemy
March/Wednesday	16	जातक कथा & नृपति दिलीप	Should Wizard Hit Mommy
March/Thursday	17	महर्षि दयानंद & सुभासित रत्नानी	On The Face of it
March/Friday	18	महामना मालवीय +पंच शील सिद्धान्त+ दुतवाकयम	Model Paper
March/Saturday	19	Doubt Session	Model Paper
March/Sunday	20	Pre Board Model Test/Practice Test	