VMC Vidyamandir Classes SINCE 1986
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Lecture Plan| Class-IX | Physics (Part A and B) | Academic Session 2025 - 26

Chapter Name	No. of Classes	Topics
Chapter -1 Motion	**Class - 1**	Rest and Motion, Rectilinear Motion, Uniform and Non-Uniform Motion, Distance and Displacement
	Class - 2	Speed and Velocity, Acceleration (Introduction)
	Class - 3	Graphical Representation of Motion, Problem Solving
	Class - 4	Algebraic Derivation of Equation of Motion, Problem solving
	Class - 5	Motion Under Gravity, Circular Motion
	Class - 6	**Part-B Discussion**
Chapter -2 Force and Laws of Motion	**Class - 1**	Introduction of Force, Balanced and Unbalanced Force, First Law of Motion, Inertia and Mass
	Class - 2	Second Law of Motion and Problem Solving
	Class - 3	Third Law of Motion, Impulse, Conservation of Momentum and Problem Solving
	Class - 4	**Part-B Discussion**
Chapter -3 Gravitation and Fluids	**Class - 1**	Introduction and Newton's Law of Gravitation
	Class - 2	Acceleration due to Gravity (Near the Surface of Earth), Motion under Gravity
	Class - 3	Mass and Weight, Thrust and Pressure
	Class - 4	Buoyancy and Archimedes Principle
	Class - 5	**Part-B Discussion**
Chapter - 4 Work, Energy and Power	**Class - 1**	Work, Work done by a constant Force, Work done by Gravitational Force
	Class - 2	Energy, Kinetic Energy, Potential Energy
	Class - 3	Conservation of Energy
	Class - 4	Power and Problem Solving
	Class - 5	**Part-B Discussion**
Chapter - 5 Sound	**Class - 1**	Production of Sound, Propagation of Sound, Sound Wave
	Class - 2	Characteristics of Sound Wave, Reflection of Sound and Problem Solving
	Class - 3	Echo and Reverberation, Range of Hearing and Uses of Reflection of Sound
	Class - 4	**Part-B Discussion**

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Lecture Plan | Class - IX | Mathematics (Part A and B) | Academic Session 2025 - 26

Chapter Name	No. of Classes	Topics
Number System	**Class-1**	1. Introduction and all types of numbers. 2. Rational and Irrational Numbers and representing irrational numbers on number line.
	Class-2	1. Real number and their decimal expansions, types of decimals, converting terminating and non terminating decimal to p/q form. 2. Operations on real number.
	Class-3	1. Introduction of surds and rationalising factor. 2. Rationalising the denominator.
	Class-4	Exponents and powers, Rational exponents.
	Class-5	Problem Solving and RTS Discussion.
	Class-6	**Part - B:** 1. Cyclicity of Exponents at Unit's Place Digit. 2. Divisibility of Integers (Divisibility by 2, 3, 4, 5 etc.)
Polynomials	**Class-1**	1. Introduction, variables, Coefficients, Degree. 2. Classification of Polynomials on bases of terms and degree. 3. Value and zeros of polynomials.
	Class-2	Factorisation of polynomials, Middle term splitting, Remainder theorem, Factor theorem.
	Class-3	Algebraic identities.
	Class-4	Miscellaneous Problems.
	Class-5	Problem Solving and RTS Discussion.
	Class-6	**Part - B:** 1. Divisibility of Algebraic Expressions ($a^n + b^n$), ($a^n - b^n$) 2. LCM and HCF of Polynomials
Co-ordinate Geometry	**Class-1**	Cartesian system, Axis, Origin, Quadrants, Plotting point.
	Class-2	**Part - B:** Distance Formula, Mid-point Formula
Euclid's Geometry	**Class-1**	Introduction and all key terms like Definition, Axioms, Postulates, Theorem.
Lines and Angles	**Class-1**	1. Introduction and all key terms. 2. Intersecting lines and non-intersecting lines. 3. Pair of angles 4. Theorem 6.1 from NCERT with some examples.
	Class-2	1. Parallel lines and relation between angles made on 2 parallel lines. 2. Problems on parallel lines.
	Class-3	1. Angles sum property and Exterior angle property . 2. Extended part of angles sum properties (90 – A/2, 90 + A/2, etc.)
	Class-4	Problem Solving and RTS Discussion.
Triangles	**Class-1**	1. Introduction and all key terms. 2. Congruency of triangles (Side Angle Sides)
	Class-2	1. Congruency of triangles (Angle Side Angle, Angle Angle Side)
	Class-3	1. Angle opposite to equal side and its converse. 2. Congruency of triangle (SSS, RHS).
	Class-4	Problem Solving and RTS Discussion.
	Class-5	**Part - B:** 1. Centroid, Incentre, Orthocentre, Circumcentre 2. Inequalities in a Triangle.
Heron's formula	**Class-1**	Introduction and all key terms with problem solving.
	Class-2	**Part - B:** High Level Question Discussion

Linear Equation in Two Variables	**Class-1**	1. Introduction of linear equation in one variable and two variable, general representation of two variable. 2. Solution of linear equation in two variables and representation on Cartesian plane. 3. Making of linear equation in two variables from word problems.
	Class-2	Problem Solving and RTS Discussion.
	Class-3	**Part - B:** Solving a Pair of Linear Equations in Two Variables (Substitution Method and Elimination Method).
Quadrilaterals	**Class-1**	1. Introduction and Essential Concepts. 2. Angles sum property of quadrilateral. 3. Properties of parallelogram with theorems 8.1 to 8.5 from NCERT.
	Class-2	1. Continued properties of parallelogram with theorems 8.6 and 8.7 from NCERT. 2. Properties of Rhombus, Rectangle and Square with problem solving.
	Class-3	1. Continued problem solving. 2. Mid - point theorem.
	Class-4	Problem Solving and RTS Discussion.
	Class-5	**Part - B:** Areas of Parallelograms and Triangles
Circles	**Class-1**	1. Introduction and Key Concepts. 2. Angle subtended by a chord at a point with theorem 9.1 and 9.2 from NCERT. 3. Perpendicular from the centre to a chord with theorem 9.3 and 9.4 from NCERT.
	Class-2	1. Equal chords and distance from centre. 2. Angle subtended by an arc with theorem 9.7, 9.8 and 9.9.
	Class-3	1. Cyclic quadrilateral with theorem 9.10 and 9.11 from NCERT. 2. Problem solving on cyclic quadrilateral.
	Class-4	Miscellaneous problems.
	Class-5	1. Problem Solving and RTS Discussion. 2. **Part - B:** High Level Question Discussion.
Mensuration	**Class-1**	Surface area and volume of Cuboid, Cube and Cylinder.
	Class-2	Surface area of Cone and Sphere, Hemisphere.
	Class-3	Volume of Cone, Sphere and Hemisphere.
	Class-4	Problem Solving and RTS Discussion.
	Class-5	**Part - B:** Frustum and High Level Question Discussion.
Statistics	**Class-1**	1. Bar graph, Histogram, Frequency polygon. 2. Introduction of Mean, Mode and Median.
	Class-2	Problem Solving and RTS Discussion.
	Class-3	**Part - B:** 1. To find Arithmetic Mean of Grouped Frequency Distribution (Direct Method). 2. Properties of Mean (Addition / Subtraction / Multiplication by any number).

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Lecture Plan | Class-IX | Biology (Part A and B) | Academic Session 2025-26

Chapter Name	No. of Classes	Topics
Chapter -1 Cell: The Fundamental of life	**Class -1**	**Introduction and History:** Introduction, Cell Biology vs Cytology, History, Cell Theory, Exceptions of Cell Theory, Shapes of Cell, Size of Cell, Microscope and their types, Types of Cells (on the basis of number of Cells and type of DNA), Prokaryotic Cell Structure and Function.
	Class -2	**Eukaryotic Cell:** Eukaryotic Cell Structure and Function, Cell Wall, Cell Membrane (Fluid Mosaic Model and Transport through Cell Membrane), Cytoplasm.
	Class -3	Nucleus Structure and Function. DNA Structure
	Class -4	**Cell Organelles:** Mitochondria, Golgi bodies, Ribosomes, Lysosomes, Cell Division etc.
	Class - 5	**Part-B Discussion**
Chapter -2 Tissues	**Class -1**	**Introduction and Plant Tissues:** Introduction, Types of Tissues, Plant Tissues, Types of Tissues with Their Structure and Location in Plants, Conduction of Water through Xylem, Translocation of Food through Phloem.
	Class -2	**Animal Tissue I:** Animal Tissues, Types, Structure and Location, Different Epithelial Tissues, Different Connective Tissues, Blood Explaining all the Corpuscles and their Lifespan, Origination and Functions
	Class -3	**Animal tissue II:** Lymph Structure and Function, Difference Between Bone and Cartilage, Adipose Tissue, Tendons Ligament
	Class -4	**Animal tissue III: Muscular Tissues –** Types and Functions, Nervous Tissues – Types and Function, Conduction of Impulse.
	Class - 5	**Part-B Discussion**
Chapter -3 Improvement in Food Resources	**Class -1**	**Crop Production and Management:** Different Types of Crops, Different Cropping Patterns, Crop Production, Preparation of Soil, Sowing, Manuring, Irrigation, Crop Protection, Harvesting, Storage.
	Class -2	**Animal Husbandry I:** Animal Husbandry, Dairy Farming-Milch Breed, Drought Breed, Dual Purpose, Poultry Farming-Layers, Broilers, Dual Purpose, Economic Importance
	Class -3	**Animal husbandry II:** Pisciculture-Fin Fishery, Shell Fishery, Capture Fishery, Culture Fishery, Composite Fish Farming, Economic Importance, Apiculture- Different Breeds of Bees, Bee Family, Functions of Different Bees, Economic Importance
	Class - 4	**Part-B Discussion**

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Lecture Plan | Class - IX | Chemistry (Part A and B) | Academic Session 2025 - 26

Chapter Name	No. of Classses	Topics
Chapter – 1 Matter in our Surroundings	**Class - 1**	Matter and its Physical Nature Characteristic of Particles of Matter • Particles of Matter have space between them • Particles of Matter continuously moving Particles of Matter attract each other
	Class - 2	States of Matter (Solid, Liquid and Gaseous State)
	Class - 3	State changes due to temperature change (Melting and boiling) and due to pressure change
	Class - 4	Dependence of Boiling point on external pressure Evaporation and Factors affecting evaporation Effect of Evaporation
	Class - 5	Problem Solving and Doubts Discussion
	Class - 6	**Part - B Discussion**
Chapter – 2 Is Matter Around Us Pure	**Class - 1**	Types of matter (Mixture and Pure) Type of mixture (Homogeneous and Heterogeneous) True Solutions
	Class - 2	Concentration of Solutions Dilution and Sampling
	Class - 3	Colloidal solution and its properties Brownian motion and Tyndall Effect Suspension
	Class - 4	Physical and Chemical change Elements Compounds Difference between mixtures and Compounds
	Class - 5	Problem Solving and Doubts Discussion
	Class - 6	**Part - B Discussion -1**
	Class - 7	**Part - B Discussion - 2**
Chapter – 3 Atoms and Molecules	**Class - 1**	Laws of Chemical Combination • Conservation of Mass • Constant Proportions Dalton's Atomic Theory
	Class - 2	Atoms, Atomic Symbols and Atomic Masses Existence of Atoms Molecules and their types
	Class - 3	Ions, formulae writing Molecular Mass, Formula unit mass Mole and Molar Mass
	Class - 4	Problem Solving and Doubts Discussion
	Class - 5	**Part - B Discussion -1**
	Class - 6	**Part - B Discussion - 2**

Chapter-4 **Structure of Atoms**	**Class - 1**	Charged Sub-atomic particles of matter [Electron and Proton] (Excluding Discoveries) Dalton's Atomic Theory Thomson Atomic Model
	Class - 2	Rutherford's Experiment and Observations Rutherford's Model Drawbacks of Rutherford's Model
	Class - 3	Neutrons Bohr's Model of Atom Electronic Distribution in shells Valency
	Class - 4	Representation of Elements Isotopes Average Atomic Mass Isobars
	Class - 5	Problem Solving and Doubts Discussion
	Class - 6	**Part - B Discussion**