Syllabus: IX Physics

Units	S.No	CONTENTS Class IX Physics	T	L	Tests		
		UNIT I: Basic Physics I.(1-2)					

UNIT I	1	(i) Units and Measurements
		    (a)Basic systems
		    (b)Fundamental and derived units					

	2	(ii) Error Spotting
		     (a)Numerical conversion
		     (b)Instrumental error
		     (c)Vernier caliper					

		UNIT II: Motion II.(3-6)					
UNIT II	3	Types of motion					
	4	Velocity and Acceleration					
	5	Equations of motion					
	6	Graphical representations					
		UNIT III: Force and Laws of motion III.(7-11)					
UNIT III	7	Definition and Units					
	8	Newton's laws of motion					
	9	Conservation of momentum					
	10	Types of force					
	11	Couple					
		UNIT IV: Gravitation IV.(12-15)					
UNIT IV	12	Newton's law of gravitation					
	13	Weight and Mass -Relation					
	14	Variation of gravity with height					
	15	Kepler's laws					
		UNIT V: Thrust and Pressure V.(16-20)					
UNIT V	16	Definition and Units					
	17	Fluids					
	18	Hydrometer					
	19	Pascal's law					
	20	Buoyancy and Archimedis					
		UNIT VI: Work and Energy VI.(21-23)					
UNIT VI	21	Definition and Units					
	22	Types of Energy					
	23	Conservation of energy					

		UNIT VII: Sound	VII.(24-28)					
UNIT VII	24	Definition and types						
	25	Propagation of Sound waves						
	26	Velocity, Frequency and Time period						
	27	Distance determination						
	28	Applications						
		UNIT VIII: Simple Haramonic motion	VIII.(29-30)					
UNIT VIII	29	Simple Pendulum						
	30	Determination of gravitation						

Syllabus: IX Chemistry

Units	S.No	CONTENTS Class IX Chemistry	T	L	Tests		
		UNIT I: Matter in Our Surroundings I.(1-3)					
UNIT I	1	Introduction - Atoms and Molecules					
	2	Evaporation, Cooling by evaporation and Condensation					
	3	Effects of Heat and Pressure on Matter					
		UNIT II: Is Matter Around Us Pure II.(4-7)					
UNIT II	4	Classification of Matter					
	5	Solution, Supension and Colloidal solutions					
	6	Methods of Separation					
	7	Physical and Chemical changes					
		UNIT III: Atoms and Molecules III.(8-12)					
UNIT III	8	Basic Units of Matter					
	9	Laws of Chemical Combination					
	10	Atomic Mass and Molecular Mass					
	11	Mole Concept					
	12	Gay Lussac's law					
		UNIT IV: Structure of Atom IV.(13-16)					
UNIT IV	13	Models of Atom					
	14	Discovery of Nucleus					
	15	Distribution of Electrons in Orbits					
	16	Parameters of an Atom					
		UNIT V: Chemical Bonding V.(17-20)					
UNIT V	17	Cation Formation					
	18	Anion Formation					
	19	Isotopes					
	20	Electron dot structure					
		UNIT VI: Classification of Elements & Perodicity in Properties VI.(21-25)					
UNIT VI	21	Mosley's law					
	22	Triad method					
	23	Law of octaves					
	24	Mendeleev's table					
	25	Modern Periodic table and Properties					
		UNIT VII: Organic Chemistry - Some Basic Principles VII.(26-29)					
UNIT VII	26	Green Chemistry					
	27	Carbon					
	28	Hydrocarbons					
	29	Alkane - ene - yne					

Syllabus: IX BIOLOGY

Units	S.No	CONTENTS Class IX Biology	T	L	Tests		
UNIT I		**UNIT I: Cell Structure I.(1-2)**					
	1	Plant cell					
	2	Animal cell					
UNIT II		**UNIT II: Cell Division II.(3-4)**					
	3	Mitosis					
	4	Meiosis					
		UNIT III: Tissues: Types and Basic Structure III.(5-6)					
UNIT III	5	Plant tissues					
	6	Animal tissues					
		UNIT IV: Diversity of living Organisims IV.(7-12)					
UNIT IV	7	Five Kingdom of Classification					
	8	Kingdom Monera - Bacteria					
	9	Kingdom Protista - Single cell algae and protozoan protista					
	10	Kingdom Fungi					
	11	Kingdom Plantae					
	12	Kingdom Animalia					
		UNIT V: Plant Morphology V.(13-16)					
UNIT V	13	Leaf					
	14	Stem					
	15	Root					
	16	Flower and Fertilization					
		UNIT VI: Genetics VI.(17-18)					
UNIT VI	17	Basic principles					
	18	Mendalian laws (a)Law of dominance and recessiveness (b)Monohybrid cross (c)Dihybrid cross					
		UNIT VII: Why do We Fall Ill VII.(19-21)					
UNIT VII	19	Viral diseases					
	20	Bacterial diaseses					
	21	Other Ailments and Diseases					
		UNIT VIII: Natural Resources VIII.(22)					
VIII	22	Biogeochemical Cycles (Nitrogen and Carbon di-oxide)					
		UNIT IX: Improvement in Food Resources IX.(23-24)					
UNIT IX	23	Improvement of Crop Resources					
	24	Animal Husbandary					

Syllabus: IX Mathematics

Units	S.No	CONTENTS Class IX Mathematics	T	L	Tests		
		UNIT I: Complex Numbers I.(1-3)					
UNIT I	1	Introduction to iota(i)					
	2	Represantion and Properties					
	3	Modulus of A Complex Numbers					
		UNIT II: Linear Equatons in Two Variables II.(4-6)					
UNIT II	4	Algebraic Methods					
	5	Graphical Methods					
	6	Consistency and Inconsistency					
		UNIT III: Polynomilas III.(7-10)					
UNITIII	7	Quadratic Polynomials					
	8	Factrozation					
	9	Factor Theorem					
	10	Remainder Theorem					
		UNIT IV: Sequences and Series IV.(11-12)					
IV	11	Sequence, Series					
	12	Arthemetic Series					
		UNIT V: Sets and Relations V.(13-16)					
UNIT V	13	Cardinal Number Of a Set					
	14	Cartesian Product					
	15	Orderd Pair					
	16	Relation					
		UNIT VI: Trigonometry VI.(17-19)					
UNIT VI	17	Degree Measure Radian Measure					
	18	Trigonometric Ratios					
	19	Basic Triognometric Values					
		Unit VII: Co-Ordinate Geometry VII.(20-22)					
UNIT VII	20	Introduction to Cartesian Plane					
	21	Distance Formula					
	22	Section Formula					
		UNIT VIII: Geometry VIII.(23-24)					
UNIT VIII	23	Medians, Altitudes					
	24	Ortho Centre, Circum Centre and Incentre					
		UNIT IX: Probability X.(25-27)					
UNIT IX	25	Event, Sample Space, Random Experiment					
	26	Exclusive Mutuallay Exclusive etc					
	27	Probability, Properties					