

Syllabus: VIII Physics

Units	S.No	CONTENTS Class VIII Physics	T	L	Tests
UNIT I: Basic Physics I.(1-3)					
UNIT I	1	Units			
	2	Fundamental and measurements			
	3	Numerical conversions			
UNIT II: Force and Pressure II.(4-6)					
UNIT II	4	Types and Effects			
	5	Atmospheric pressure			
	6	Applications			
UNIT III: Friction III.(7-9)					
UNIT III	7	Definition and types			
	8	Spring balance			
	9	Advantages and disadvantages			
UNIT IV: Sound IV.(10-12)					
UNIT IV	10	Classification and Characteristics			
	11	Noise			
	12	Musical instruments			
UNIT V: Chemical effects of electric current V.(13-15)					
UNIT V	13	Electric current and its direction			
	14	Electrolysis			
	15	Magnetic effects of current			
UNIT VI: Some Natural Phenomena VI.(16-17)					
UNIT VI	16	Lightning and Thunder			
	17	Earthquakes			
UNIT VII: Light VII.(18-22)					
UNIT VII	18	Source of light			
	19	Propagation of light			
	20	Reflection - laws			
	21	Refraction			
	22	Lens			
UNIT VIII: Stars and The Solar system VIII.(23-25)					
UNIT VIII	23	Planets			
	24	Constellations			
	25	Eclipse			
UNIT IX: Motion IX.(26-28)					
UNIT IX	26	Definition and types			
	27	Velocity and time			
	28	Graphical view			

Syllabus: VIII Chemistry

Units	S.No	CONTENTS Class VIII Chemistry	T	L	Tests
UNIT I: Classification of Matter I.(1-3)					
UNIT I	1	Elements			
	2	Compounds			
	3	Mixtures			
UNIT II: Atoms and Molecules II.(4-7)					
UNIT II	4	Elements- Symbols of elements			
	5	Constituents of atoms			
	6	Molecules of elements and Atomicity			
	7	Molecular formulae			
UNIT III: Language of Chemistry III.(8-10)					
UNIT III	8	Symbols			
	9	Name and symbols of ions			
	10	Chemical formulae			
UNIT IV: Materials, Metals and Non-Metals IV.(11-13)					
UNIT IV	11	Physical Properties and Chemical Properties of Metals			
	12	Physical Properties and Chemical Properties of Non-Metals			
	13	Uses of metals and non-metals			
UNIT V: Coal and Petroleum V.(14-17)					
UNIT V	14	Natural Resources			
	15	Coal			
	16	Petroleum			
	17	Natural Gases			
UNIT VI: Combustion And Flame VI.(18-20)					
UNIT VI	18	Combustion			
	19	Flame			
	20	Fuel			
UNIT VII: Structure of Atom VII.(21-24)					
UNIT VII	21	Subatomic Particles			
	22	Discovery of Electron, Proton and Neutron			
	23	Atomic Models			
	24	Orbit and Orbitals (Shells and Sub shells)			
UNIT VIII: Carbon and Its Compounds VIII.(25-28)					
UNIT VIII	25	Carbon cycle			
	26	Crystalline forms of carbon			
	27	Amorphous Allotropes of Carbon			
	28	Compounds of Carbon			
UNIT IX: Pollution of Air And Water IX.(29-33)					
UNIT IX	29	Components of Air			
	30	Composition and Roles and Movement of Air			
	31	Classification of Water and Water Cycle			
	32	Physical and Chemical Properties of Water			
	33	Air Pollution and Water Pollution			

Syllabus: VIII BIOLOGY

Units	S.No	CONTENTS Class VIII 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	UNIT III: Tissues: Types and Basic Structure III.(5-6)				
	5	Plant tissues			
	6	Animal tissues			
UNIT IV	UNIT IV: Diversity of living Organisms IV.(7-12)				
	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	UNIT V: Plant Morphology V.(13-16)				
	13	Leaf			
	14	Stem			
	15	Root			
	16	Flower and Fertilization			
UNIT VI	UNIT VI: Human Physiology VI.(17-19)				
	17	Digestive System			
	18	Circulatory System			
	19	Excretory System			
UNIT VII	UNIT VII: Plant Physiology VII.(20-21)				
	20	Photosynthesis			
	21	Transpiration			
UNIT VIII	UNIT VIII: Why do We Fall Ill VII.(20-24)				
	22	Viral diseases			
	23	Bacterial diseases			
	24	Other Ailments and Diseases			
UNIT IX	UNIT IX: Natural Resources VIII.(25)				
	25	Biogeochemical Cycles (Nitrogen and Carbon di-oxide)			
UNIT X	UNIT X: Conservation of Plants and Animals IX.(26-27)				
	26	Deforestation and Reforestation			
	27	Conservation of Forest and Wildlife			

Syllabus: VIII Mathematics

Units	S.No	CONTENTS Class VIII Mathematics	T	L	Tests
		UNIT I: Number System	I.(1-3)		
UNIT I	1	Rational Numbers			
	2	Irrational Numbers			
	3	Square Roots And Cube roots			
		UNIT II: Algebra	II.(4-6)		
UNIT II	4	Algebraic expressions and Types			
	5	Polynomials and Types			
	6	Linear equations with one variable			
		UNIT III: Set Theory	III.(7-9)		
UNIT III	7	Introduction to Set			
	8	Types Of Set			
	9	Set Operations			
		UNIT IV: Cartesian Plane	IV.(10-13)		
UNIT IV	10	Co-ordinate axes			
	11	About Quadrants			
	12	Representation of Point			
	13	Equation of X-axis Y-axis			
		UNIT V: Lines and Angles	V.(14-17)		
UNIT V	14	Types of Angles			
	15	Linear Pair, Vertically Opposite Angles			
	16	Alternate, Corresponding Angles			
	17	Parallel Lines and Perpendicular Lines			
		UNIT VI: Geometry	VI.(18-19)		
UNIT VI	18	Similarity and Congruency			
	19	SSS,SAS,ASA and RHS			
		UNIT VII: Quadrilaterals	VII.(20-21)		
VII	20	Convex, Concave Quadrilateral			
	21	Types of Quadrilaterals			
		UNIT VIII: Mensuration	VIII.(22-25)		
UNIT VIII	22	Areas of Different Quadrilaterals			
	23	Areas of Triangle			
	24	Heron's Formula			
	25	Cube and Cuboid, Cone, Cylinder			