BLOOM PUBLIC SCHOOL
C-8, Vasant Kunj, New Delhi
Syllabus for the session
2025-2026

CLASS: IX
SUBJECT: SCIENCE

MONTH	CHAPTERS (AS PER NCERT)	CONTENT	PRACTICAL/ ACTIVITIES
APRIL	**Chapter 1: Matter In Our Surroundings**	Definition of matter; solid, liquid and gas; characteristics - shape, volume, density; change of state, melting (absorption of heat), freezing, evaporation (cooling by evaporation), condensation, sublimation.	Activity: Poster on any one activity of your choice from the Ncert. Various equipment used in the chemistry lab.
	Chapter 5: The Fundamental Unit of Life	**Cell - Basic Unit of life** : Cell as a basic unit of life; prokaryotic and eukaryotic cells, multicellular organisms; cell membrane and cell wall, Nucleus, cytoplasm	Experiment: Temporary mount of cheek cells.
	Chapter 8: Motion	**Motion:** Distance and displacement, velocity; uniform and non-uniform motion along a straight line; acceleration, distance-time and velocity-time graphs for uniform motion and uniformly accelerated motion, elementary idea of uniform circular motion elementary idea of uniform circular motion.	Experiment: To find the speed of different moving bodies
MAY	**Chapter 2: Is matter around us Pure**	Nature of matter: Elements, compounds and mixtures. Heterogeneous and homogenous mixtures, colloids and suspensions, Physical and chemical	Activity: Make a flowchart of matter Experiment: Types of

		changes (excluding separating the components of a mixture).	solutions and their features
	Chapter 5: The Fundamental Unit of Life (Cont'd)	**Cell - Basic Unit of life** : Cell organelles: endoplasmic reticulum, golgi apparatus , lysosome,mitochondria, plastids,vacuoles,cell division	Experiment: Temporary mount of onion peel. Activity: Role play & colorful diagrams of different organelles on A4 pages.
	Chapter 7: Motion (Cont'd)	**Motion:** Distance and displacement, velocity; uniform and non-uniform motion along a straight line; acceleration, distance-time and velocity-time graphs for uniform motion and uniformly accelerated motion, elementary idea of uniform circular motion elementary idea of uniform circular motion.	
	Chapter 8: Force and Laws of Motion	**Force and Newton's laws:** Force and Motion, Newton's Laws of Motion, Action and Reaction forces, Inertia of a body, Inertia and mass, Momentum, Force and Acceleration. Elementary idea of conservation of Momentum.	Experiment: To understand inertia of motion and rest through activity
JULY	**Chapter 2: Is matter around us Pure (Cont'd)**	Nature of matter: Elements, compounds and mixtures. Heterogeneous and homogenous mixtures, colloids and suspensions, Physical and chemical changes (excluding separating the components of a mixture).	Experiment: Preparation of mixture and compound.
	Chapter 6: Tissue	**Tissues, Organs, Organ System, Organism:** Structure and functions of plant tissues (Meristematic and Permanent tissues in plants).	Experiment: Temporary mount of onion peel.

	Chapter 8: Force and Laws of Motion (Cont'd)	**Force and Newton's laws:** Force and Motion, Newton's Laws of Motion, Action and Reaction forces, Inertia of a body, Inertia and mass, Momentum, Force and Acceleration. Elementary idea of conservation of Momentum.	
AUGUST	**Chapter 3: Atoms and Molecules**	Particle nature and their basic units: Atoms and molecules, Law of Chemical Combination, Chemical formula of common compounds, Atomic and molecular masses.	Activity: Numerical on atomic mass and number. Experiment: Type of reactions: Physical and chemical.
	Chapter 6: Tissue (Cont'd)	**Tissues, Organs, Organ System, Organism:** Structure and functions of animal.	Experiment: Plant tissues from permanent slides. Activity: Flowchart of plant and animal tissues with their location and functions.
	Chapter 8: Force and Laws of Motion (Cont'd)	**Force and Newton's laws:** Force and Motion, Newton's Laws of Motion, Action and Reaction forces, Inertia of a body, Inertia and mass, Momentum, Force and Acceleration. Elementary idea of conservation of Momentum.	
	Chapter 9: Gravitation	**Gravitation:** Gravitation, Universal Law of Gravitation, Force of Gravitation of the earth (gravity), Acceleration due to Gravity; Mass and Weight; Free fall. Floatation: Thrust and Pressure. Archimedes' Principle; Buoyancy.	Experiment: Determination of the density of solid (denser than water) by using a spring balance and a measuring cylinder.
SEPTEMBER	**Chapter 3: Atoms and Molecules (Cont'd)**	Particle nature and their basic units: Atoms and molecules, Law of Chemical Combination, Chemical formula of	Activity of criss cross method.

		common compounds, Atomic and molecular masses.	Experiment: Melting and boiling point of water.
	Chapter 6: Tissue (Cont'd)	**Revision of the fundamental unit of life and Tissues**	
	Chapter 9: Gravitation (Cont'd)	**Gravitation:** Gravitation, Universal Law of Gravitation, Force of Gravitation of the earth (gravity), Acceleration due to Gravity; Mass and Weight; Free fall. Floatation: Thrust and Pressure. Archimedes' Principle; Buoyancy.	
OCTOBER	**Chapter 3: Structure of Atom**	Electrons, protons and neutrons, Valency, Atomic Number and Mass Number, Isotopes and Isobars.	Activity: Drawing of atomic structure
	Chapter 12: Improvement in Food Resources	**Improvement in Food Resources:** Improvement in Crop Yields - Crop variety improvement, Crop production improvement, Crop protection management.	Experiment: Animal tissues from permanent slides.
	Chapter 9: Gravitation (Cont'd)	**Gravitation:** Gravitation, Universal Law of Gravitation, Force of Gravitation of the earth (gravity), Acceleration due to Gravity; Mass and Weight; Free fall. Floatation: Thrust and Pressure. Archimedes' Principle; Buoyancy.	
	Chapter 11: Work and Energy	**Work, energy and power:** Work done by a Force, Energy, power; Kinetic and Potential energy; Law of conservation of energy (excluding commercial unit of Energy).	

NOVEMBER	**Structure of Atom (Cont'd)**	Electrons, protons and neutrons, Valency, Atomic Number and Mass Number, Isotopes and Isobars.	Activity: Drawing of ionic structure. Experiment: Law of conservation of mass.
	Chapter 13: Improvement in Food Resources (Cont'd)	**Improvement in Food Resources:** Animal Husbandry - Cattle farming, Poultry farming, Fish production, Bee-keeping	
	Chapter 10: Work and Energy(Cont'd)	**Work, energy and power:** Work done by a Force, Energy, power; Kinetic and Potential energy; Law of conservation of energy (excluding commercial unit of Energy).	
DECEMBER	**Chapter 4: Structure of Atom (Cont'd)**	Electrons, protons and neutrons, Valency, Atomic Number and Mass Number, Isotopes and Isobars.	Activity: Isobars and isotope
	Chapter 12: Improvement in Food Resources (Cont'd)	**Improvement in Food Resources:** Animal Husbandry - Cattle farming, Poultry farming, Fish production, Bee-keeping	Activity: Mind map of improving crop production and animal husbandry.
	Chapter 11: sound	**Sound:** Nature of sound and its propagation in various media, speed of sound, range of hearing in humans; ultrasound; reflection of sound; echo.	Experiment: Verification of the Laws of reflection of sound.
JANUARY	**Chapter 4: Structure of Atom (Cont'd)**	Electrons, protons and neutrons, Valency, Atomic Number and Mass Number, Isotopes and Isobars.	

	Chapter 13: Improvement in Food Resources (Cont'd) **Chapter 12: sound (Cont'd)**	**Improvement in Food Resources:** Animal Husbandry - Cattle farming, Poultry farming, Fish production, Bee-keeping **Sound:** Nature of sound and its propagation in various media, speed of sound, range of hearing in humans; ultrasound; reflection of sound; echo.	Activity: Bee keeping
FEBRUARY	**REVISION-EXAM**	**REVISION -EXAM**	
MARCH	**EXAM**	**EXAM**	

ASSESSMENT SYLLABUS	
PERIODIC ASSESSMENT -1	Chapter 1: Matter In Our Surroundings Chapter 5: The Fundamental Unit of Life Chapter 8: Motion
PERIODIC ASSESSMENT -2	Chapter 3: Atoms and Molecules Chapter 6: Tissue Chapter 10: Gravitation Chapter 11: Work and Energy Chapter 12: Improvement in Food Resources: Improvement in Crop Yields - Crop variety improvement, Crop production improvement, Crop protection management.
MID-TERM EXAM	Chapter 1: Matter In Our Surroundings Chapter 2: Is matter around us Pure Chapter 5: The Fundamental Unit of Life Chapter 6: Tissue Chapter 9: Force and Laws of Motion Chapter 10: Gravitation (done till September 5)
FINAL EXAMINATION	Chapter 1: Matter In Our Surroundings Chapter 2: Is matter around us Pure Chapter 3: Atoms and Molecules Chapter 4: Structure of Atom

	Chapter 5: The Fundamental Unit of Life Chapter 6: Tissue Chapter 8: Motion Chapter 9: Force and Laws of Motion Chapter 10: Gravitation Chapter 11: Work and Energy Chapter 12: sound Chapter 13: Improvement in Food Resources