BLOOM PUBLIC SCHOOL

C-8 Vasant Kunj, New Delhi

Syllabus for the Session 2023-24

Class: IX

Subject: Science

SYLLABUS		
MONTH	**CHAPTER (NCERT Text book)**	**CONTENT**
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.
	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, cell organelles and cell inclusions; chloroplast, mitochondria, vacuoles, endoplasmic reticulum, Golgi apparatus; nucleus, chromosomes - basic structure, number.
	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.
May	Chapter 1: Matter In Our Surroundings (Cont'd)	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.
	Chapter 5: The Fundamental Unit of Life (Cont'd)	**Cell - Basic Unit of life** : Cell as a basic unit of life; prokaryotic and eukaryotic cells, multicellular organisms; cell membrane and cell wall, cell organelles and cell inclusions; chloroplast, mitochondria, vacuoles, endoplasmic reticulum, Golgi apparatus; nucleus, chromosomes - basic structure, number.

	Chapter 8: 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 9: 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.
July	Chapter 2: Is matter around us Pure	Nature of matter: Elements, compounds and mixtures. Heterogeneous and homogenousmixtures, colloids and suspensions, Physical and chemical changes (excluding separating the components of a mixture).
	Chapter 6: Tissue	**Tissues, Organs, Organ System, Organism**: Structure and functions of animal and plant tissues (only four types of tissues in animals; Meristematic and Permanent tissues in plants).
	Chapter 9: 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 2: Is matter around us Pure (Cont'd)	Nature of matter: Elements, compounds and mixtures. Heterogeneous and homogenousmixtures, colloids and suspensions, Physical and chemical changes (excluding separating the components of a mixture).
	Chapter 6: Tissue (Cont'd)	**Tissues, Organs, Organ System, Organism**: Structure and functions of animal and plant tissues (only four types of tissues in animals; Meristematic and Permanent tissues in plants).
	Chapter 9: 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,

	Chapter 10: Gravitation	Momentum, Force and Acceleration. Elementary idea of conservation of Momentum. 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
September	Chapter 2: Is matter around us Pure (Cont'd) Chapter 3: Atoms and Molecules Chapter 6: Tissue (Cont'd) Chapter 10: Gravitation (cont'd)	Nature of matter: Elements, compounds and mixtures. Heterogeneous and homogenousmixtures, colloids and suspensions, Physical and chemical changes (excluding separating the components of a mixture). Atoms and molecules, Law of Chemical Combination, Chemical formula of common compounds, Atomic and molecular masses. **Tissues, Organs, Organ System, Organism**: Structure and functions of animal and plant tissues (only four types of tissues in animals; Meristematic and Permanent tissues in plants). 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: Atoms and Molecules (Cont'd) Chapter 10: Gravitation (cont'd)	Atoms and molecules, Law of Chemical Combination, Chemical formula of common compounds, Atomic and molecular masses. 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).
	Chapter 15: Improvement in Food Resources	Food Production Plant and animal breeding and selection for quality improvement and management; Use of fertilizers and manures; Protection from pests and diseases; Organic farming.
November	Chapter 3: Atoms and Molecules (Cont'd)	Atoms and molecules, Law of Chemical Combination, Chemical formula of common compounds, Atomic and molecular masses.
	Chapter 11: 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).
	Chapter 15: Improvement in Food Resources (Cont'd)	Food Production Plant and animal breeding and selection for quality improvement and management; Use of fertilizers and manures; Protection from pests and diseases; Organic farming.
December	Chapter 4: Structure of Atom	Structure of atoms: Electrons, protons and neutrons, Valency, Atomic Number and Mass Number, Isotopes and Isobars
	Chapter 12: sound	Sound: Nature of sound and its propagation in various media, speed of sound, range of hearing in humans; ultrasound; reflection of sound; echo
	Chapter 15: Improvement in Food Resources (Cont'd)	Food Production Plant and animal breeding and selection for quality improvement and management; Use of fertilizers and manures; Protection from pests and diseases; Organic farming.

January	Chapter 4: Structure of Atom (Cont'd) Chapter 12: sound (cont'd) Chapter 5,6 and 15	Structure of atoms: Electrons, protons and neutrons, Valency, Atomic Number and Mass Number,Isotopes and Isobars Sound: Nature of sound and its propagation in various media, speed of sound, range of hearing in humans; ultrasound; reflection of sound; echo Revision
February	Revision	
March	Annual Exams	

ASSESSMENT SYLLABUS

PERIODIC ASSESSMENT -1	Chapter 1: Matter In Our Surroundings Chapter 5: The Fundamental Unit of Life (till Page 63 Prokaryotic vs Eukaryotic cell table) Chapter 8: Motion
TERM -1 EXAM	Chapter 1: Matter In Our Surroundings Chapter 2: Is matter around us Pure Chapter 3: Atoms and Molecules (Done till Sep 5) Chapter 5: The Fundamental Unit of Life Chapter 6: Tissue (Till Plant Tissue) Chapter 8: Motion Chapter 9: Force and Laws of Motion Chapter 10: Gravitation (done till September 10)
PERIODIC ASSESSMENT -2	Chapter 3: Atoms and Molecules Chapter 6: Tissue (Only Animal Tissue) Chapter 10: Gravitation Chapter 11: Work and Energy
TERM -2 EXAM	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: Tissues Chapter 8: Motion Chapter 9: Force and Laws of Motion Chapter 10: Gravitation Chapter 11: Work and Energy Chapter 12: sound Chapter 15: Improvement in Food Resources