



EMBASSY OF INDIA SCHOOL (KV) MOSCOW

SPLIT-UP SYLLABUS 2024-25

CLASS: IX - SCIENCE

S.No	Month	No. of working Days	Description (Title of the chapter, Topics /Units)	Suggestive Practical, Project, MDP, Tests & Assignments	Suggested methodology to be used (Like PBL/AIL/CCT/ Experiential learning)
1	APRIL	22	<p>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.</p> <p>Unit I: Matter-Nature and Behaviour Definition of matter; solid, liquid and gas; characteristics - shape, volume, density; change of state melting (absorption of heat</p> <p>: Organization in the Living World Cell - Basic Unit of life : Cell as a basic unit of life; prokaryotic and eukaryotic cells, multicellular organisms; cell membrane and cell wall.</p>	<p>Monthly Test Assignment/M CQs</p> <p>Making of models – solids liquid and gases</p>	<p>Experimentation , Experiential learning , video / animation , PBL</p>
2	MAY	19	<p>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.</p>	<p>Periodic Test-1</p>	<p>Problem solving Experimentation , Experiential learning , video / animation , PBL</p>

			<p>MATTER - , freezing, evaporation (cooling by evaporation), condensation, sublimation.</p> <p>cell organelles and cell inclusions; chloroplast, mitochondria, vacuoles, endoplasmic reticulum, Golgi apparatus; nucleus, chromosomes - basic structure, number.</p>	Melting point and boiling point experiment	
3	JUN & JUL	21	<p>Gravitation: Gravitation: Universal Law of Gravitation, Force of Gravitation of the earth (gravity), Acceleration due to Gravity; Mass and Weight; Free fall.</p> <p>Nature of matter: Elements, compounds and mixtures. Heterogeneous and homogenous mixtures.</p> <p>Tissues, Organs, Organ System, Organism</p>	<p>Class Test</p> <p>Type of solution and its properties</p>	<p>Problem solving Experimentation , Experiential learning , video / animation , PBL</p>
4	AUGUST	19	<p>Floatation: Thrust and Pressure. Archimedes' Principle; Buoyancy.</p> <p>colloids and suspensions. Physical and chemical changes (excluding separating the components of a mixture)</p> <p>Structure and functions of animal and plant tissues (only four types of tissues in animals;</p>	<p>Monthly Test Experiment-8 Experiment-9 Preparation of colloids, suspension, true solution</p>	<p>Experimentation , Experiential learning , video / animation , PBL</p>
5	SEPTEMBER	21	<p>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).</p> <p>Particle nature and their basic units: Atoms and molecules, Law of Chemical Combination</p> <p>: Meristematic and Permanent tissues in plants).</p>	<p>Periodic Test-2</p> <p>Type of Chemical reactions</p>	<p>Problem solving Diagrams Making models Elemental songs Experiments – observation</p>

6	OCTOBER	19	Sound: Nature of sound and its propagation in various media, speed of sound, range of hearing in humans. Chemical formula of common compounds, Atomic and molecular masses. Food Production Plant and animal breeding and selection for quality improvement and management;	Class Test	Art integrated projects Games based on elements Model of atoms – models
7	NOVEMBER	21	Sound: ultrasound; reflection of sound; echo. Structure of atoms: Atom Models , Electrons, protons and neutrons,. Use of fertilizers and manures;	Experiment-7 Experiment-10 Making of Atom models	Model of each element Video – observation and analysis
8	DEC & JAN	21	Valency, Atomic Number and Mass Number, Isotopes and Isobars Protection from pests and diseases; Organic farming.	Periodic Test-3	Problem solving . Writing chemical formulae
9	FEB 2025	20	REVISION		Solve question papers
10	MARCH 2025		SESSION ENDING EXAM		