Grade	Subject	Sr No	Lesson Name	Learning Objectives/Subtopic	Methodology	Pedagogical methods	Learning outcome	Teaching Aid	Teaching Place	No. of lectures required	Class Activities / Diagrams	Activity Suggested—Tr Name
IX	Science	1	Matter in Our Surroundings	Understand states of matter, properties, and changes.	Discussion, demonstration, questioning	Teacher explains particle nature with experiments; students observe evaporation and condensation.	Students will differentiate between solids, liquids, and gases and explain changes of state.	Models and lab apparatus	Science Lab	3-4	Group experiment on melting ice.	Observe surroundings and list examples of matter.
IX	Science	2	Is Matter Around Us Pure	Learn about mixtures, solutions, and separation techniques.	Activity-based learning	Demonstrate filtration and distillation; students perform simple separation tasks.	Students classify substances as pure or mixtures.	Charts and lab equipment	Science Lab	4	Separate sand and salt activity.	Home assignment on types of mixtures.
IX	Science	3	Atoms and Molecules	Understand laws of chemical combination and molecular mass.	Lecture with problem solving	Explain Dalton's theory; numerical practice in pairs.	Students calculate molecular mass and apply chemical laws.	Molecular model kit	Classroom	5	Worksheet on chemical formulas.	Create models of molecules.
IX	Science	4	Structure of the Atom	Learn about electrons, protons, neutrons and atomic models.	Visual learning	Use animations and diagrams to explain atomic structure.	Students describe atomic models and isotopes.	Smart board, charts	Smart Classroom	4	Draw Bohr models.	Research activity on scientists.
IX	Science	5	The Fundamental Unit of Life	Understand cell structure and functions.	Microscope observation	Show plant and animal cells; label diagrams.	Students explain cell organelles.	Microscope, slides	Lab	5	Diagram practice.	Prepare a cell chart.
IX	Science	6	Tissues	Differentiate plant and animal tissues.	Comparative teaching	Create tables comparing tissues.	Students identify tissues and their functions.	Charts	Classroom	4	Group chart making.	Collect plant samples.
IX	Science	7	Motion	Understand speed, velocity, and acceleration.	Numerical practice	Solve motion problems; graph interpretation.	Students analyze motion using equations.	Graph sheets	Classroom	6	Plot distance-time graph.	Record daily motion examples.
IX	Science	8	Force and Laws of Motion	Learn Newton's laws and applications.	Experiment-based	Demonstrate inertia using objects.	Students explain real-life applications.	Lab kit	Lab	5	Ball inertia activity.	Write examples of action-
IX	Science	9	Gravitation	Understand gravity and buoyancy.	Concept mapping	Explain Archimedes' principle with activity.	Students solve numerical problems on gravitation.	Water container, objects	Lab	5	Density experiment.	Project on satellites.

IX	Science	10	Work and Energy	Define work, power, and energy.	Interactive lecture	Discuss kinetic and potential energy with examples.	Students calculate work and power.	Charts	Classroom	4	Energy conversion chart.	Observe machines at home.
IX	Science	11	Sound	Learn about waves and sound propagation.	Audio-visual	Use tuning forks to demonstrate vibrations.	Students explain pitch and frequency.	Tuning fork	Lab	4	Measure sound sources.	Noise pollution survey.
IX	Science	12	Improvement in Food Resources	Learn modern agricultural practices.	Field-based examples	Explain crop production and management.	Students describe sustainable farming.	Agriculture charts	Classroom	4	Visit a farm (virtual/real).	Interview a farmer.