

SCIENCE				
MONTH	NO. OF	TOPIC	SUB TOPICS	LEARNING OBJECTIVES
APRIL	19	Matter in our Surrounding	Introduction of matter and States of	Provide an introduction to the concept of matter, including its definition, properties,
		Matter in our Surrounding	Characteristics - shape, volume, density	Differentiate between its states, focusing on characteristics such as shape, volume,
		Matter in our Surrounding	Change of state: melting (absorption of	Explore the processes of changing states of matter, including melting, freezing,
		Matter in our Surrounding	Doubt Clearing session	Address conceptual doubts, provide clarification on specific questions, and reinforce
		Matter in our Surrounding	Question/Answer session	Evaluate and reinforce comprehension of key concepts within the chapter by actively
		Matter in our Surrounding	Revision Test	Assess overall comprehension, reinforce key concepts, and identify areas of
		Is Matter Around Us Pure?	Introduction of the chapter and Elements	Provide an introduction to the chapter on elements, compounds, and mixtures,
		Is Matter Around Us Pure?	Compounds and Mixtures	Differentiate between compounds and mixtures, exploring their properties and
		Is Matter Around Us Pure?	Heterogeneous and homogenous	Understand the differences between heterogeneous and homogeneous mixtures,
		Is Matter Around Us Pure?	Colloids and suspensions	Explore colloids and suspensions, understanding their properties and behaviors in
		Is Matter Around Us Pure?	Physical and chemical changes	Differentiate between physical and chemical changes, understanding the underlying
		Is Matter Around Us Pure?	Doubt Clearing session	Address conceptual doubts, provide clarification on specific questions, and reinforce
		Is Matter Around Us Pure?	Question/Answer session	Evaluate and reinforce comprehension of key concepts within the chapter by actively
		Is Matter Around Us Pure?	Revision Test	Assess overall comprehension, reinforce key concepts, and identify areas of
MAY	19	Fundamental Unit of Life	Cell as a basic unit of life	Understand the cell as the fundamental unit of life, exploring its structure and
		Fundamental Unit of Life	Prokaryotic and eukaryotic cells and	Differentiate between prokaryotic and eukaryotic cells, as well as between unicellular
		Fundamental Unit of Life	Cell membrane and cell wall	Explore the functions and structures of the cell membrane and cell wall, emphasizing
		Fundamental Unit of Life	Cell organelles and cell inclusions	Understand the various organelles and inclusions present within cells, their
		Fundamental Unit of Life	Chloroplast, mitochondria,	Explore the structures and functions of chloroplasts and mitochondria, understanding
		Fundamental Unit of Life	Vacuoles, Endoplasmic reticulum	Understand the structure and function of vacuoles, including their roles in storage,
		Fundamental Unit of Life	Golgi apparatus and nucleus	Explore the structure and function of the Golgi apparatus, including its role in protein
		Fundamental Unit of Life	Doubt Clearing session	Address conceptual doubts, provide clarification on specific questions, and reinforce
		Fundamental Unit of Life	Question/Answer session	Evaluate and reinforce comprehension of key concepts within the chapter by actively
		Fundamental Unit of Life	Revision Test	Assess overall comprehension, reinforce key concepts, and identify areas of
		Tissues	Structure and functions of animal and	Understand the structure and functions of animal and plant tissues, exploring their
		Tissues	Meristematic tissues in Plants	Explore the characteristics and functions of meristematic tissues in plants,
		Tissues	Permanent tissues in plants	Understand the types and functions of permanent tissues in plants, focusing on their
		Tissues	Four types of tissues in animals	Identify and understand the four types of tissues in animals, exploring their structures
		Tissues	Doubt Clearing session	Address conceptual doubts, provide clarification on specific questions, and reinforce
		Tissues	Question/Answer session	Evaluate and reinforce comprehension of key concepts within the chapter by actively
		Tissues	Revision Test	Assess overall comprehension, reinforce key concepts, and identify areas of
		JULY	21	Motion
Motion	Velocity; uniform and non-uniform motion			Differentiate between uniform and non-uniform motion along a straight line, calculate
Motion	Acceleration			Define acceleration, calculate average acceleration, and understand its relationship
Motion	Distance-time and velocity-time graphs			Interpret distance-time and velocity-time graphs for objects in uniform motion and
Motion	Uniform circular motion			Explore the concept of uniform circular motion, understanding its characteristics and
Motion	Numericals			Solve numerical problems related to motion, including calculations involving distance,
Motion	Numericals			Further practice solving numerical problems related to motion, reinforcing
Motion	Doubt Clearing session			Address conceptual doubts, provide clarification on specific questions, and reinforce
Motion	Question/Answer session			Evaluate and reinforce comprehension of key concepts within the chapter by actively
Motion	Revision Test			Assess overall comprehension, reinforce key concepts, and identify areas of
		Force and Laws of Motion	Introduction of Force and Motion	Provide an introduction to force and motion
		Force and Laws of Motion	Newton first law of motion with	Explain Newton's first law of motion and apply it to various real-life scenarios to
		Force and Laws of Motion	Newton second law of motion	Understand Newton's second law of motion and its mathematical representation,

AUGUST	18	Force and Laws of Motion	Newton third law of motion	Discuss Newton's third law of motion, focusing on action and reaction forces and
		Force and Laws of Motion	Action and Reaction forces	Understand action and reaction forces and analyzing their effects.
		Force and Laws of Motion	Numericals	Solve numerical problems related to force and laws of motion
		Force and Laws of Motion	Numericals	Further practice solving numerical problems related to force and laws of motion,
		Force and Laws of Motion	Doubt Clearing session	Address conceptual doubts, provide clarification on specific questions, and reinforce
		Force and Laws of Motion	Question/Answer session	Evaluate and reinforce comprehension of key concepts within the chapter by actively
		Force and Laws of Motion	Revision Test	Assess overall comprehension, reinforce key concepts, and identify areas of
		Atom and Molecules	Introduction of Atom and Molecules	Understand the basic concepts of atoms and molecules, including their structures,
		Atom and Molecules	Laws of Chemical Combination	Explore the fundamental laws governing chemical reactions, including the law of
		Atom and Molecules	Chemical formula of common	Learn to write chemical formulas for common compounds, including binary
		Atom and Molecules	Atomic and molecular masses	Understand the concepts of atomic and molecular masses, including their definitions,
		Atom and Molecules	Doubt Clearing session	Address conceptual doubts, provide clarification on specific questions, and reinforce
		Atom and Molecules	Question/Answer session	Evaluate and reinforce comprehension of key concepts within the chapter by actively
		Atom and Molecules	Revision Test	Assess overall comprehension, reinforce key concepts, and identify areas of
SEPTEMBER	16	Revision for Term-I		Consolidate knowledge, identify areas of weakness, practice problem-solving, review
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OCTOBER	18	Structure of the Atom	Concept of Electrons, Protons and	Understand the fundamental particles of an atom, including their charges, masses,
		Structure of the Atom	Atomic Number and Mass Number,	Define atomic number and mass number, understand their significance in identifying
		Structure of the Atom	Valency	Define valency, understand how it relates to the number of electrons in the outermost
		Structure of the Atom	Isotopes and Isobars	Differentiate between isotopes and isobars, understand their definitions, and identify
		Structure of the Atom	Doubt Clearing session	Address conceptual doubts, provide clarification on specific questions, and reinforce
		Structure of the Atom	Question/Answer session	Evaluate and reinforce comprehension of key concepts within the chapter by actively
		Structure of the Atom	Revision Test	Assess overall comprehension, reinforce key concepts, and identify areas of
		Gravitation	Introduction and discussion on	Provide an overview of the concept of gravitation, including its significance in
		Gravitation	Universal Law of Gravitation	State Newton's universal law of gravitation, understand its mathematical
		Gravitation	Numericals on Universal Law of	Solve numerical problems related to the universal law of gravitation, including
		Gravitation	Force of Gravitation of the earth (gravity)	Understand the gravitational force exerted by the Earth on objects near its surface,
		Gravitation	Acceleration due to Gravity, Mass and	Define acceleration due to gravity, understand its value near the Earth's surface, and
		Floatation	Thrust and Pressure with Numericals	Understand the concepts of thrust and pressure, solve numerical problems involving
		Floatation	Archimedes' Principle and Buoyancy	Define Archimedes' principle, understand its significance in determining buoyant
		Floatation	Doubt Clearing session	Address conceptual doubts, provide clarification on specific questions, and reinforce
		Floatation	Question/Answer session	Evaluate and reinforce comprehension of key concepts within the chapter by actively
		Floatation	Revision Test	Assess overall comprehension, reinforce key concepts, and identify areas of
		Work, Energy and Power	Introduction of work and Work done by a	Understand the concept of work, including its definition, calculation methods, and
		Work, Energy and Power	Energy and power	Define energy and power, understand their units, and differentiate between different
		Work, Energy and Power	Kinetic and Potential energy	Differentiate between kinetic and potential energy, understand their definitions, and
		Work, Energy and Power	Law of conservation of energy	Understand the law of conservation of energy, stating that energy cannot be created
		Work, Energy and Power	Numericals	Solve numerical problems involving work, power, and energy, applying relevant

NOVEMBER	20	Work, Energy and Power	Doubt Clearing session	Address conceptual doubts, provide clarification on specific questions, and reinforce
		Work, Energy and Power	Question/Answer session	Evaluate and reinforce comprehension of key concepts within the chapter by actively
		Work, Energy and Power	Revision Test	Assess overall comprehension, reinforce key concepts, and identify areas of
		Improvement in Food	Introduction and discussion on food	Provide an overview of food production methods, including plant and animal
		Improvement in Food	Plant and animal breeding and selection	Understand the principles of plant and animal breeding, including selective breeding
		Improvement in Food	Use of fertilizers and manures	Explore the use of fertilizers and manures in agriculture, understanding their roles in
		Improvement in Food	Protection from pests and diseases	Understand methods of pest and disease management in agriculture, including
		Improvement in Food	Organic farming	Discuss the principles and practices of organic farming, including crop rotation,
		Improvement in Food	Doubt Clearing session	Address conceptual doubts, provide clarification on specific questions, and reinforce
		Improvement in Food	Question/Answer session	Evaluate and reinforce comprehension of key concepts within the chapter by actively
		Improvement in Food	Revision Test	Assess overall comprehension, reinforce key concepts, and identify areas of
DECEMBER	21	Sound	Nature of sound and its propagation in	Understand the properties of sound waves and how they propagate through different
		Sound	Speed of sound and range of hearing in	Learn about the speed of sound in various materials and the range of frequencies
		Sound	Ultrasound	Explore the applications of ultrasound in various fields, including medicine, industry,
		Sound	Reflection of sound and Echo.	Understand the phenomenon of sound reflection and echo, including its practical
		Sound	Doubt Clearing session	Address conceptual doubts, provide clarification on specific questions, and reinforce
		Sound	Question/Answer session	Evaluate and reinforce comprehension of key concepts within the chapter by actively
		Sound	Revision Test	Assess overall comprehension, reinforce key concepts, and identify areas of
JANUARY	19	Revision for Term-II		Consolidate knowledge, identify areas of weakness, practice problem-solving, review
FEBRUARY	18	Revision for Term-II		Consolidate knowledge, identify areas of weakness, practice problem-solving, review