MONTH	WEEK	ТОРІС	LEARNING OBJECTIVE	ACTIVITIES	ASSESSMENT USED
APRIL	WEEK1 WEEK2	Chapter 1: Matter in Us Surroundings Matter Characteristics of the particles of matter. Discussion of practicals to be done in Term – 1 States of matter- forces of attraction and space between particles of matter Interconversion of the states of matter K=C+273 Latent Heat Evaporation Factors affecting the rate of Evaporation Discussion of NCERT exercise.	Describe matter and the characteristics of the particles of matter. Understand the differences between the various states of matter. Evaluate the conditions for the interconversion of various states of matter. Explain latent heat of fusion and latent heat of vaporisation. Discuss Evaporation and explain various factors influencing evaporation.	To determine the melting point of ice and boiling point of water	Class Tests
	WEEK3 WEEK4	Chapter – 2: Is Matter Around Us Pure? Elements and Compounds as pure substances. Mixtures and pure substances. Mixtures – homogeneous and heterogeneous. Classification of Elements –metals, nonmetals and metalloids. Physical and chemical changes. Homogeneous Mixtures as solutions or true solutions. Solubility of a substance (Temperature and Pressure dependence) Saturated and unsaturated solution Concentration of solution. Numericals on solubility and concentration of solution. Suspension Colloids Various types of colloids.	<ul> <li>The students would be able to- •</li> <li>Classify substances as pure</li> <li>(element, compound) and impure</li> <li>(mixture) substances.</li> <li>• Analyse the differences in the properties of elements, compounds and mixtures. classify elements as metals, non-metals and metalloids based on their general physical properties.</li> <li>• Classify mixtures as homogeneous and heterogeneous mixtures with examples from daily lives.</li> <li>• analyse the differences in physical and chemical changes and apply their knowledge and understanding in daily lives.</li> </ul>	Ready Reckoner question bank	presentation

			<ul> <li>analyse the characteristics of true</li> </ul>		
			solution and various types of true		
			solution		
MAY		Chapter 8: Motion	Students will be able to	Recognition of	quiz
	WEEK1	Introduction Rest & motion – Definition with	Get aware about meaning of rest	the apparatus	
		Examples Scalar and vector quantities Motion	and motion differentiate between	in the lab.	
		along a straight line Distance Displacement	distance and displacement.	Learning	
		Uniform motion Non uniform motion			
		Speed Average speed Speed with direction	Students will be able to		
		Average velocity SI units Numericals	calculate the average speed in a		
		Acceleration and retardation Uniform	given situation.		
		acceleration and non uniform acceleration			
		Numericals .			
	WEEK2	Graph : concept and importance Graphical			
		representation of motion by d-t graph			
		Calculation of speed from d-t graph.			
		Equations of motion by graphical method-			
		Equation for velocity time relation Equation for			
		position time relation Equation for position			
		velocity relation			
		Chapter 9 : Force and Laws of Motion	The learners would be able to	Demonstration	Class test
	WEEK3	Force – Definition , effects Types of force	differentiate between balanced and	of newton's	
		Balanced and unbalanced forces.	unbalanced forces evaluate the	second law of	
		Newton's first law of motion Definition of	numerical value of force and	motion and	
		inertia Reasoning questions based on first law.	momentum.	third law of	
		Newton's second law of motion.	The learners would be able to	motion	
	WEEK4	Derive F=ma Momentum, impulse –definition	explain the laws of motion in		
		and units.	various situations .		
		Reasoning questions and numericals based on			
		second law. Newton's third law of motion			
		Chapter5- the fundamental unit of life	It will enable the students to:	To prepare	Oral test
JULY	WEEK3	Discovery of cell Unicellular and multicellular and	understand the discovery of cells	stained	

	WEEK4	structures of organisms Discovery of cell, microscope Division of labour Cell organelles Plasma Plasma membrane Diffusion and osmosis Cell wall Structures and functions ofNucleus -Cytoplasm -Endoplasmic reticulum -Golgi bodies -Lysosome – Mitochondria. -Plastids -Vacuoles membrane Diffusion and osmosis Cell wall Structures and functions ofNucleus -Cytoplasm -Endoplasmic reticulum -Golgi bodies -Lysosome - Mitochondria -Plastids -Vacuoles .	understand the importance of types of cells	temporary mounts of: (a) onion peel and (b) human cheek cells and to record observations and draw their labeled diagrams	
AUGUST	WEEK1 WEEK2	Chapter-6 Tissues Tissues Types of Tissues Plant tissues Types of Plant Tissues Meristematic Tissues Permanent tissue Types of permanent tissues ,Simple permanent tissue Complex permanent tissue- Animal tissues and its types Epithelial Tissues Connective tissue Muscular tissue Nervous tissue.	It will enable the students to: Understand the meaning and concept of tissues know meaning of tissue and its types.	Identification of Parenchyma, Collenchyma and Sclerenchyma tissues in plants, striped, smooth and cardiac muscle fibers and nerve cells in animals from prepared slides. Drawing of their labeled	quiz

				diagrams.	
	WEEK3 WEEK4	Chapter 7: Diversity in Living Organisms Basic features of organisms Importance of diversity Basis of classification Hierarchy of Classification . Five Kingdoms of classification Archae-bacteria and Eubacteria Kingdom Monera -types and various features Kingdom Protista -types and various features Kingdom Fungi – -Various features and types Plant classification Division Plantae Thallophyta Bryophyta, Pteridophyta ,Gymnospermae, Angiospermae.	It will enable the students to: understand the concept and importance of diversity explain the method of classification.	Study of the characteristics of Spirogyra / Agaricus, Moss / Fern, Pinus (either with male or female cone) and an Angiospermic plant. Drawing and providing two identifying features of the groups they belong to. Study of the external features of root, stem, leaf and flower of monocot and dicot plants.	brainstroming
SEPTEMBER	WEEK1 WEEK2	Chapter 13: Why Do We Fall III? Health Difference between healthy Symptoms and signs of a disease Acute and Causes of a disease Infectious and non- infectious disease Infectious agents Spreading of a disease	It will enable the students to: understand meaning of health correlate diseases with their symptoms and signs differentiate between acute and chronic disease.	Discussion of practical based Questions	Written test

		Principle of treatment Vaccination principle			
		and diseased person chronic disease Organ and			
		tissue specific manifestations .			
OCTOBER		Chapter 14: Natural Resources	It will enable the students to	Discussion of	quiz
	WEEK1	Chapter 14 Natural Resources Wind formation	understand the concept of air as	practical based	
		Role of air in temperature control Air pollution	blanket explain the causes of air	Questions	
		Acid rain	pollution		
		Smog Water as a resource Importance of water			
		for a living organism			
	WEEK2	Water pollution Effects of water pollution			
		Weathering of rocks Agents of soil formation-			
		Introduction			
		Agents of soil formation- wind, water, sun,			
		organisms Soil pollution.			
		Chapter-15: Improvement in Food Resources	It will enable the students to:	Discussion of	Oral test
	WEEK3	Manure and fertilizers Irrigation Cropping	differentiate between manure and	practical based	
		patterns Crop protection- pests and weeds	fertilizers explain ways for crop	Questions	
		Storage of grains .	variety improvement explain the		
	WEEK4	Animal husbandry Cattle farming Cattle feed	cropping patterns .		
		Indigenous variety and exotic variety			
		Poultry farming Cross breeding Egg and broiler			
		production Poultry feed and management Fish			
		production Inland fisheries.			
NOVEMBER		Chapter 10 : Gravitation	Students will be able to to explain	To determine	Written test
	WEEK1	Thrust Pressure Applications Numericals on	the applications of thrust and	density of solid	
		Thrust and pressure .	pressure. understand the concept	(denser than	
		Up thrust Buoyancy Why do objects float and	of flotation.	water) by	
		sink?		using a spring	
	WEEK2	Archimedes Principle Numericals Density		balance and a	
		Relative density .		measuring	
		Numericals based on density and relative density		cylinder.	

	WEEK3 WEEK4	Chapter 11: work and energy Introduction Work done by constant force , Positive and negative work Numericals.	Students will be able to Identify and list different types of energy. understand the phenomenon of transformation of energy understand the relation between commercial and SI unit of energy	To establish the relation between the loss in weight of a solid when fully immersed in (a) tap water (b) strongly salty water, with the weight of water displaced by it by taking at least two different solids	Quiz
DECEMBER	WEEK1	<b>Chapter 12 : Sound</b> Introduction Production of sound Propagation of sound.	Students will be able to understand the phenomena of production as well as the	To determine velocity of a pulse	Oral test
		Sound needs medium to travel Types of waves –	propagation of sound list various	propagated	
	WEEK2	Characteristics of wave – Wavelength , speed ,	characteristics of a wave.	stretched	

		amplitude and frequency Numericals Speed of sound in different media		string/slinky To verify laws	
		Reflection of sound Echo Numericals based on		of relection of	
		Chanter 3: Atoms and Molecules	The students will be able to-	Revision of	Class test
57 (107 (11)	WEEK1	Ions Writing chemical formulae	Discuss various ions and using them	numericals on	
		Molecular mass Formula unit mass Molar mass	for writing chemical formula.	laws of	
		Molar mass Introduction to Mole concept	Calculate Molecular Mass and	chemical	
	WEEK2	Numericals on mole concept (relationship of mole and mass of a substance) Numericals on mole concept (relationship of mole and number of particles	Molar Mass	combination.	
			The students will be able to:-	Revision of	Written test
		Chapter – 4 Structure of Atom	Understand the significance of mole	ions and	
	WEEK3	Charged particle in matter. Thomson's model of	in terms of mass and number of	chemical	
		Atom. Rutherford's model of an Atom-	particles.	formula.	
	WEEK4	(Observations and Conclusions) Nuclear model of an atom by Rutherford Limitations of Rutherford's model of an atom.			