VIDYA PRATISHTHAN'S NEW BAL VIKAS MANDIR PIMPLI - BARAMATI Annual Curriculum Plan 2025-2026 Subject- Science								
Std- IX Topic No. of Periods Month	Learning Outcomes	Assessment tools	Teaching Learning Strategies/Activities	Resources	Inter-disciplinary			
Physics Topic: Motion Sub-topics: i)Uniform and non- uniform motion ii)Speed with direction iii)Rate of change of velocity iv)Graphical representation of motion v)Uniform circular motion No. of Periods: 11 Month: April	i)Students will be able to describe	m (April 2025 - Se Multiple Assessment Activity	Experiential Learning: Ball Down a Ramp:a ball will roll down a ramp. Students can measure the time it takes to travel different distances and calculate its acceleration, explain the concept of acceleration.	Physics textbook by Lakhmir Singh and Manjit Kaur	Creativity Active learning, Problem solving			

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Chemistry Topic: Matter in our surroundings Sub-topics: i. Physical Nature of Matter ii. Characteristics of Particles of Matter iii. States of Matter No. of Periods: 11 Month: April	<b>Students will be able to:</b> i.understand the particle nature of matter and it's characteristics .ii. compare the states of matter based on different parameters.	Concept Map	<b>Concept Map:</b> States of Matter	i. NCERT Textbook ii. Sample of Concept Map iii. Chemistry Lab	Art
(Biology) Topic: The Fundamental Unit of Life (5.1 and 5.2.4) Sub-topics: i. What are Living Organisms Made Up of? ii. What is a Cell Made Up of? iii. Plant Cell and Animal cell iii. Cell Membrane iv. Cell Wall v. Nucleus vi. Cytoplasm No. of Periods: 9 Month: April	Students will be able to: i. study the structural organization of a cell. ii. learn the structure and functions of different cell organelles such as plasma membrane, nucleus, cytoplasm etc. iii. learn to differentiate between: Plant cell and Animal cell.	Lab Activity	Lab Activity: To prepare stained temporary mount of onion peel and to record the observations.	i. NCERT Textbook ii. Biology Lab	Life Skills : Critical thinking skills, Visual Perceptual skill

Topic No. of Periods Month	Learning Outcomes	Assessment tools	Teaching Learning Strategies/ Activities	Resources	Inter-disciplinary
Physics Topic: Forces and laws of motion Sub-topics: i)Balanced and unbalanced forces ii)Newton's three laws of motion iii)Inertia and mass iv)Momentum No. of Periods: 7 Month: June	Students will be able to differentiate between (a) Balanced and Unbalanced forces (b) Action and Reaction forces Students will understand the concepts of mass and inertia.	Multiple Assessment Activity: Worksheet on numericals	Experienrial learning: i)flicking a card under a coin (inertia),ii)observing a filled glass tumbler on a tray (inertia and Newton's laws),	i. NCERT Textbook ii)Inclined plane in School's Science	
Chemistry Topic: Matter in our surroundings Sub-topics: i. Can Matter Change its State? ii. Evaporation No. of Periods: 11 Month: June	<b>Students will be able to:</b> i. summarize the states of matter, ii. Describe the concept of latent heat of fusion and vapourisation and the effect of change of pressure. ii. discuss the factors affecting evaporation.	Lab activity	Lab activity: Determination of the melting point of ice and the boiling point of water.	i. NCERT Textbook ii. Chemistry Lab	Life Skills : Art, Presentation, Critical thinking skills, Visual Perceptual skill

Topic No. of Periods Month	Learning Outcomes	Assessment tools	Teaching Learning Strategies/ Activities	Resources	Inter-disciplinary
Biology Topic: The Fundamental Unit of Life (5.2.5 and 6.1) Sub-topics: i. Cell Organelles- Endoplasmic Reticulum, Golgi Apparatus, Lysosomes, Mitochondria, Plastids,Vacuoles ii. Cell division No. of Periods: 8 Month: June	Students will be able to: i. learn the structure and functions of different cell organelles such as plastids, endoplasmic reticulum, Mitochondria etc. ii. differentiate between: Mitosis and Meiosis	Multiple Assessment Activity	Multiple Assessment Activity: Draw a neat and labelled diagram of: Plant cell and Animal cell	i. NCERT Textbook ii. Biology Lab	Life Skills : Art, Presentation, Critical thinking skills, Visual Perceptual skill
	Pre- M	l Iid Examination	<u> </u> 1. July 2025		
Physics Topic: Gravitation Sub-topics: i)Universal law of gravitation ii)Mass and weight iii)Thrust and pressure iv)Archemedes' principle No. of Periods: 6 Month: July	i. Students will learn the concept of gravitation. ii. Students will be able to explain the universal law of gravitation. iii. Students will learn to calculate the value of acceleration due to gravity (g).	Multiple Assessment Activity and Lab Activity	Lab Activity : i)To study Archemedes' principle ii)experimenting with buoyancy in water using an empty bottle and an iron nail.	i)NCERT textbook Physics textbook by Lakhmir Singh and Manjit Kaur	Critical thinking and analytical thinking, Research Applications in day today life

Topic No. of Periods Month	Learning Outcomes	Assessment tools	Teaching Learning Strategies/ Activities	Resources	Inter-disciplinary
Chemistry Topic: Is Matter Around Us Pure? [2.1 and 2.2] Sub-topics: i. What is a mixture? ii. What is a solution? No. of Periods: 7 Month: July	<b>Students will be able to:</b> i. learn about the different types of mixtures, solutions and suspensions. ii. understand the properties of mixtures, solutions and suspensions.	Multiple Assessment Activity	Multiple Assessment Activity: Write down the properties of solution, suspension and colloid in a tabular form creatively.	i. NCERT Textbook ii.Chemistry Lab	<b>Life Skills-</b> Art, Problem Solving, Creative thinking
(Biology) Topic: Tissues (6.1 and 6.2.2) Sub-topics: i. Are Plants and Animals Made of Same Types of Tissues? ii. Plant Tissues? Meristematic Tissue, Permanent Tissue, Simple Permanent Tissue, Complex Permanent Tissue No. of Periods: 9 Month: July	Students will be able to: i. learn about different types of plant tissues such as meristematic tissues, permanent tissues etc. ii. learn to draw a well labelled diagram of: Parenchyma, Collenchyma and Sclerenchyma.	Experiential Learning Activity	<b>Experiential</b> <b>Learning Activity:</b> Students will collect a plant stem and prepare slide of T.S. of a stem and observe different types of cells and their arrangement under the microscope.	Educational Video Tata Classedge	*Life Skills- Critical Thinking, Communication skills, Decision making

Topic No. of Periods Month	Learning Outcomes	Assessment tools	Teaching Learning Strategies/ Activities	Resources	Inter-disciplinary
Physics Topic: Work and energy Sub-topics: i)Work ii)Energy iii)Kinetic energy iv)Potential energy v)Law of conservation of energy No. of Periods: 6 Month: August	Students will be able to - i)calculate weight of an object on the moon. ii) differentiate between mass and weight.	Multiple Assessment Activity	Multiple Assessment Activity: Students will identify the type of energy stored in the following cases: eg.stretched rubber band, a wound-up toy car, moving car, a running person, a falling object.	Physics Wallah you tube videos	Life Skills- Responsibilities Respect to the nature Critical thinking

Topic No. of Periods Month	Learning Outcomes	Assessment tools	Teaching Learning Strategies/ Activities	Resources	Inter-disciplinary
Chemistry	Students will be able to:	Lab Activity	Lab Activity :	i. Tata Class Edge	21st Century Skills:
Topic: Is Matter	i. understand the physical and chemical		i. To prepare a true	ii.Chemistry Lab	Communication skills,
Around Us Pure? [2.3	changes and types of pure substances.		solution/ suspension/		Problem solving.
and 2.4]	ii. differentiate between mixtures and		colloid using the		Perseverance.
Sub-topics:	compounds		materials provided.		Information literacy.
i. Physical and			ii. To prepare a		Technology skills and
Chemical Changes			mixture and a		digital literacy.
ii. What are the Types			compound using Iron		
of Pure Substances?			filings and Sulphur		
No. of Periods: 6			powder and		
Month: August			distinguishbetween		
			them on the basis of		
			their properties.		
			Iii. To carry out		
			different chemical		
			reactions and record		
			the observations.		

Topic No. of Periods Month	Learning Outcomes	Assessment tools	Teaching Learning Strategies/ Activities	Resources	Inter-disciplinary
(Biology) Topic: Tissues (6.3 and 6.3.4) Sub-topics: i. Animal Tissues- Epithelial Tissue, Connective Tissue, Muscular Tissue, Nervous Tissue No. of Periods: 8 Month: August	Students will be able to: i. learn about different types of animal tissues such as epithelial tissues, muscular tissues etc. ii. differentiate between the structure and functions of animal and plant tissues.	Lab Activity and Multiple Assessment Activity	Lab Activity - i. To study different types of tissues with the help of permanent slide. <b>Multiple Assessment</b> <b>Activity:</b> ii. Concept Map: Plant Tissues iii. Draw a neat and labelled diagram of: Nerve cell	i. NCERT Textbook ii. Biology Lab	*Life Skills- Problem Solving, Creative thinking, Visual perceptual skill
	Mid Term	Examination. S	eptember 2025		
Physics	i)Students will be able to		Experiential	Reflection of sound	Critical thinking
Topic: Sound (12.1 to	understand: propagation of sound,	on numericals	Learning:	board,	Responsibilities
12.3)	types of sound waves, amplitude and	ii) Students	experiments	sound wave	Respect for nature
Sub-topics:	frequency of vibration. ii) They will	will write	demonstrating sound	produced by slinky	
i)How sound is produced ii)Characteristics of sound iii)Infra and Ultra sound iv)Applications of ultra sound No. of Periods: 6 Month: October	distinguish between loudness and pitch.	applications of ultrasound	production and transmission, by vibrating objects		

Topic No. of Periods		Assessment	Teaching Learning		
Month	Learning Outcomes	tools	Strategies/Activities	Resources	Inter-disciplinary
Chemistry	Students will be able to:	Multiple	Activity- To	i) NCERT Textbook	21st Century Skills:
Topic:	i) understand the contribution of	Assessment	demonstrate	ii) Talking walls of	i.critical thinking and
Structure of the Atom	various Scientists in revealing the	Activity	electrostatic force of	the School	problem solving,
[4.1 to 4.2]	presence of charged particles in an		attraction using comb		communications and
Sub-topics:	atom.		and pieces of paper.		collaboration, creativity
i. Charged particles in	ii) compare the structure of an atom				and innovation.
matter.	with that of a watermelon.				ii. Information and
ii. The structure of an	iii) explain Rutherford's model of an				communication
atom	atom and its drawbacks.				technologies (ICT)
No. of Periods: 6	iv) explain Bohr's model of an atom.				literacy
Month: October					
(Biology)	Students will be able to:	Assignment	Science Exhibition	i. NCERT Textbook	Life Skills-
<b>Topic:</b> Improvement	i. understand the importance of				Problem Solving,
in Food Resources	cropping pattern.				Creative thinking, Visual
(12.1 to 12.1.3	ii. differentiate between fertilizers and				perceptual skill
Sub-topics:	manure.				
i. Improvement in crop	iii. Explain types of irrigation and their				
yields	importance.				
Ii. Crop production					
management					
iii. Nutrient					
Management					
iv. Irrigation system					
and cropping pattern					
No. of Periods: 7					
Month: October					

Topic No. of Periods Month	Learning Outcomes	Assessment tools	Teaching Learning Strategies/ Activities	Resources	Inter-disciplinary
Physics	Students will be able to:	Multiple	Multiple Assessment	NCERT Textbook	Problem solving skill
Topic: Sound (12.1 to	i)understand the application of Ultrasound in	Assessment	Activity: students will	Physics lab	Responsibilities
12.3)	SONAR system.	Activity	collect information about		Active learning
Sub-topics:	li) understand infra and uitrasound		ultrasonography and		
i)How sound is	iii)application of ultrasound in sonography		echocardiography.		
produced					
ii)Characteristics of					
sound					
iii)Infra and Ultra					
sound					
iv)Applications of ultra					
sound					
No. of Periods: 6					
Month: November					
Chemistry	Students will be able to:	Multiple	Multiple Assessment	i. NCERT Textbook	21st Century Skills:
Topic:	i. draw the electronic configuration of	Assessment	Activity:	ii. Tata Class Edge	i.critical thinking and
Structure of the Atom	the elements having atomic number 1	Activity	Students will draw		problem solving,
[4.3 to 4.5]	to 20.		and explain the		communication and
	ii. calculate the valency of the given		structure of an atom of		collaboration, creativity
i. How are electrons	element.		the element respective		and innovation.
	iii. calculate the mass number of the		to their Roll Numbers.		ii. Information and
orbits?	given element.				communication
5	iv. enlist the applications of isotopes				technologies (ICT)
	and differentiate between isotopes and				literacy
Mass Number	isobars.				
iv. Isotopes					
No. of Periods: 6					
Month: November					

Topic No. of Periods Month	Learning Outcomes	Assessment tools	Teaching Learning Strategies/ Activities	Resources	Inter-disciplinary
(Biology) Topic: Improvement in Food Resources (12.2 to 12.2.4) Sub-topics: i. Animal Husbandry - Cattle Farming, Poultry Farming, Fish Production ii. Bee-keeping No. of Periods: 6 Month: November	<b>Students will be able to:</b> i. understand the importance of rearing and caring of different animals. ii. learn about Animal Husbandry.	Assignment	Multiple Assessment Activity: Students will collect grains or seeds of cereals or pulses and gather information about the season in which they are sown or harvested.	i. NCERT Textbook	Life Skills- Problem Solving, Creative thinking, Visual perceptual skill
Chemistry Topic: Atoms and Molecules [3.1 and 3.2] Sub-topics: i. Laws of Chemical Combination ii. What is an atom? iii. What is a molecule? No. of Periods: 6 Month: December	Students will be able to: i. learn the laws of chemical combination. ii. understand the concept of atomic mass and symbols of atoms of different elements.	Lab Activity and Multiple Assessment Activity	Multiple Assessment Activity: Students will make a chart of elements found in human body and their functions. Lab Activity: To verify the Law of Conservation of Mass	i. NCERT Textbook ii. Chemistry Lab iii. Periodic Table Chart	<b>21st Century Skills:</b> Communication skills, Problem solving. Perseverance. Technology skills .
	Post Mid Tei	rm Examination	, December 2025	•	

Topic No. of Periods Month	Learning Outcomes	Assessment tools	Teaching Learning Strategies/ Activities	Resources	Inter-disciplinary			
Chemistry	Students will be able to:	Experiential	i. Science Exhibition	i. Chart of Names	21st Century Skills:			
Topic: Atoms and	i. write the chemical formulae of	Learning	ii. Experiential	and Symbols of	Communication skills,			
Molecules	different compounds.	Activity	Learning Activity	polyatomic ions	Problem solving.			
[3.3 to 3.5]	ii. calculate the molecular mass and		Students will form the	ii. Talking wall of	Perseverance.			
Sub-topics:	formula unit mass of molecules		formulae of different	the School				
i. What is a molecule?			compounds with the	iii. Cardboard				
ii. Writing Chemical			help of cardboard	cutouts for making				
Formulae			cutouts.	formulae of				
ii. Molecular Mass				different				
No. of Periods: 6				compounds.				
Month: January								
	Revision for Practical Examination and Annual Examination							
		Examination, F		-				