

	VIDYA PRATISHTHAN'S NEW BAL VIKAS MANDIR PIMPLI - BARAMATI Annual Curriculum Plan 2025-2026				
	Subject- Science				
	Std- VII				
	Topic No. of Periods Month	Learning Outcomes	Assessment tools	Teaching Learning Strategies/ Activities	Resources Inter-disciplinary
	First Term (April 2025 - September 2025)				
	Topic: Nutrition in plants Sub-topics: i) Modes of nutrition in plants ii) Photosynthesis iii) Saprotrophic nutrition iv) How nutrients are replenished in the soil. No. of Periods: 10 Month: April	Students will be able to - i. Define: nutrition and understand the importance of nutrition. ii. Classify modes of nutrition. iii. Distinguish between autotrophic and heterotrophic modes of nutrition. iv. Understand parasitic and saprophytic mode of nutrition in plants.	Lab Activity and Puzzle	Lab Activity: i. To study the structure of stomata under the microscope. ii. Puzzle	i. NCERT Textbook ii. Biology Lab Life Skills- Critical thinking, Respect for nature, Visual perceptual skill

<p>Topic: Exploring Substances: Acidic, Basic and Neutral</p> <p>Sub-topics:</p> <p>i) Nature- Our Science Laboratory</p> <p>ii) Turmeric as an Indicator</p> <p>iii) Neutralisation in Daily Life</p> <p>No. of Periods: 11</p> <p>Month: June</p>	<p>Students will be able to -</p> <p>i. define acids, bases, and neutral substances.</p> <p>ii. identify common household substances as acidic, basic, or neutral.</p> <p>iii. understand the pH scale and its relationship to acidity and basicity.</p> <p>iv. describe the properties of acids and bases.</p> <p>v. state the applications of neutralisation in daily life.</p>	<p>Lab Activity and Multiple Assessment</p>	<p>Lab Activity:</p> <p>i. To find out the nature of the given solutions using litmus paper.</p> <p>ii. Multiple Assessment:</p> <p>Create a chart or presentation showcasing the common household substances and classify them as acidic, basic and neutral substances.</p>	<p>i. NCERT Textbook</p> <p>ii. Chemistry Lab</p>	<p>Life Skills-</p> <p>Critical thinking, Respect for nature, Visual perceptual skill</p>
<p>Topic: Electricity: Circuits and their Components</p> <p>Sub-topics:</p> <p>i) A Torchlight</p> <p>ii) Simple Electric Circuit</p> <p>iii) An Electric Circuit</p> <p>iv) Circuit Diagrams</p> <p>v) Electrical Conductors and Insulators</p> <p>No. of Periods: 9</p> <p>Month: June</p>	<p>Students will be able to -</p> <p>i. Identify the components of an electric circuit.</p> <p>ii. Explain how an electric circuit works.</p> <p>iii. Draw and interpret circuit diagrams.</p> <p>iv. Apply their knowledge to understand how devices use electricity.</p>	<p>Peer Assessment</p>	<p>Project: Build a simple circuit with a battery, bulb, and switch and present in class.</p>	<p>i. NCERT Textbook</p> <p>ii. Physics Lab</p>	<p>Life Skills-</p> <p>Visual perceptual skill, Critical Thinking, Creative Thinking, Decision making</p>

<p>Topic: Light, Shadows and Reflections</p> <p>Sub-topics:</p> <ul style="list-style-type: none"> ii) Does light travel in a straight line? ii) Reflection of light iii) Sources of light iv) Image formed in a plane mirror v) Making some useful items <p>No. of Periods: 12</p> <p>Month: July</p>	<p>Students will be able to -</p> <ul style="list-style-type: none"> i. understand the concept of reflection of light. ii. classify transparent, translucent and opaque objects. iii. describe reflection of light. 	Peer Assessment	<p>Group Activity:</p> <p>Create a shadow puppet show using everyday objects and a light source.</p>	<ul style="list-style-type: none"> i. NCERT Textbook ii. Online resource 	<p>Life Skills-</p> <p>Critical thinking, Visual perceptual skill, Communication skill</p>
<p>Topic: The World of Metals and Non- metals</p> <p>Sub-topics:</p> <ul style="list-style-type: none"> i) Properties of Materials ii) Effect of Air and Water on Metals : Iron iii) Effect of Air and Water on other Metals iv) Substances that behave differently from Metals in Air and Water v) Are Non-metals Essential in Everyday Life? <p>No. of Periods: 8</p> <p>Month: July</p>	<p>Students will be able to -</p> <ul style="list-style-type: none"> i. Define metals and non-metals. ii. Identify key properties of Metals and Non-metals. iii. Understand chemical reactivity. iv. Enlist uses of metals and non-metals. 	Lab Activity	<p>Lab Activity:</p> <ul style="list-style-type: none"> i. To find the electrical conductivity of different materials. ii. To see that non-metals form acidic oxides. 	<ul style="list-style-type: none"> i. NCERT Textbook ii. Physics and Chemistry Lab 	<p>Life Skills-</p> <p>Critical thinking, Communication, Problem solving</p>
First Unit Test, July 2025					

Topic: Adolescence: A stage of Growth and Change Sub-topics: i) Growing with Age : The Teenage Years ii) Changes that Indicate Reproductive Capability iii) Emotional and Behavioural changes in Adolescents iv) Making Adolescence a Joyful Experience v) The 'Wh' Question for Adolescence No. of Periods: 12 Month: August	Students will be able to - i. understand the changes at puberty. ii. Understand the importance of personal hygiene. iii. gain knowledge about reproductive health.	Peer Assessment	Activity: Collect data on the number of students in your class who exercise regularly and who do not exercise regularly. Do you notice any difference in their fitness and health? Prepare a report on the benefits of regular exercise.	i. NCERT Textbook ii. Chemistry Lab	Life Skills- Critical Thinking, Decision making
First Terminal Examination, September 2025					
Second Term (October 2025 - March 2026)					
Topic: Heat Transfer in Nature Sub-topics: i) Conduction of Heat ii) Convection iii) Radiation iv) Land and Sea Breeze v) Water cycle No. of Periods: 11 Month: October	Students will be able to - i. understand the concept of Transfer of heat- Conduction, Convection, and radiation. ii. differentiate between land and sea breeze. iii. describe water cycle.	Lab Activity	Lab Activity: i. To study the phenomenon of conduction of heat. ii. To study the phenomenon of convection of heat. Science Exhibition	i. NCERT Textbook, ii. Physics and Chemistry Lab	Life Skills- Visual perceptual skill, Critical Thinking, Creative Thinking, Communication skill

Topic: Measurement of Time and Motion Sub-topics: i) Measurement of time ii) Slow or Fast ii) Measuring speed iii) Types of Motion No. of Periods: 9 Month: November	Students will be able to - i. define motion and identify different types of motion. i. understand the concept of speed. ii. calculate the speed of different objects. iii. learn how to measure the time.	Lab Activity	Lab activity: To determine the time period of simple pendulum.	i. NCERT Textbook	Life Skills- Critical thinking, Communication, Problem solving
Second Unit Test, November 2025					
Topic: Changes Around Us : Physical and Chemical Sub-topics: i) A Substance may change in Appearance but remain the Same ii) A Substance may change in Appearance but not remain the Same iii) Some other processes involving Chemical Changes iv) Can Physical and Chemical changes occur in the same process? v) Are changes permanent? vi) Are all changes desirable? vii) Some slow natural changes No. of Periods: 12 Month: December	Students will be able to - i. identify physical changes and explain how they occur. ii. differentiate between physical and chemical changes. iii. identifying examples of both types of changes and understanding their characteristics.	Lab Activity	Lab activity: i. To study the reaction of Oxygen with Magnesium to form Magnesium oxide. ii. To study the reaction of Copper Sulphate on Iron nails.	i. NCERT Textbook ii. Chemistry Lab	Life Skills- Critical thinking, Visual perceptual skill, Communication skill

Topic: Life processes in Animals Sub-topics: i) Nutrition in Animals ii) Respiration in Animals iii) Do other animals breathe the same way as humans do? No. of Periods: 16 Month: January	Students will be able to - i. learn the different organs involved in the human digestive system and the process of digestion. ii. explain structure and working of human respiratory system. iii. draw a neat and labelled diagram of human digestive system. iv. understand the breathing mechanism in other organisms like cockroach, fish and plants.	Peer Assessment	Group Activity: Make a model of Human Digestive System / Human Respiratory System	i. NCERT Textbook ii. Biology Lab Chart - The human Digestive and Respiratory System	*Life Skills- Problem Solving, Respect for Nature, Creative thinking, Decision making Scientific attitude
Topic: Earth, Moon and the Sun (Internal Assessment) Sub-topics: i) Rotation of the Earth ii) Revolution of the Earth iii) Seasons on the Earth ii) Types of eclipses No. of Periods: 8 Month: February	Students will be able to - i. define rotation and revolution ii. Draw a neat and labelled diagram of solar and lunar eclipses. iii. differentiate between solar and lunar eclipses.	Worksheet and Multiple Assessment Activity	Multiple Assessment Activity: Make a collage of Indian Scientist and their contribution and display in class.	i. NCERT Textbook ii. Smart class	*Life Skills- Critical thinking, Respect For nature, Scientific attitude
Second Terminal Examination, March 2026					