

VIDYA PRATISHTHAN'S NEW BAL VIKAS MANDIR, PIMPLI-BARAMATI.
ANNUAL CURRICULUM AND PEDAGOGICAL PLAN, 2025-2026.
SUBJECT-SCIENCE

Std : V A, B & C

Sr. No	Topic/Sub Topics/ Month/No.of periods	Learning Outcome	Assessment tools	Teaching Learning Strategies/ Activities	Resources	Interdisciplinary
1	April No. of Periods-11 1.Growing New Plants Subtopics- *Germination of Seed *Seed Dispersal *Reproduction by leaves, Stem, Spores, Roots. *Crop production and steps in Agriculture.	Students will be able to - 1. understand the process of crop cultivation. 2. learn about various ways in which seed dispersal is carried 3. learn and understand the growing/reproduction of new plants from seed and various parts such as stem, leaves, roots, spores.	*Notebook *Diagrams *Textbook	*Experimental Approach: Soaking the gram seeds and observing the structure of a seed. *Diagram-Germination of Seed Visual Aids-Pictures.	Diagrams, Experiment Demonstration	*Life Skills- Problem Solving, Respect for Nature, Patience, Responsibility, Social Skills. *Art
2	June No. of Periods- 15 2.Food and Deficiency Diseases Subtopics- *Constituents of food. *Balanced Diet *Deficiency diseases *Communicable and Non-communicable diseases, precautions and protective measures	Students will be able to - 1. understand the constituents of food. 2. learn about importance of balanced diet for proper growth and development. 3. learn about causes and precautions for communicable and non-communicable diseases and deficiency diseases.	*Notebook *Worksheet	Activity- *Preparation of ORS *Food Pyramid *Vitamins and their Deficiency with craft paper *Prepare a frozen yoghurt with the help of your mother Teaching Learning Strategies : Active Engagement, Technology Integration	Demonstration Educational videos	*Life Skills- Problem Solving, Self Awareness, Critical Thinking, Healthy eating habits, Social Skills. *Art

3	July No. of Periods- 14 4.Air and Water Subtopics- *Components of Air *Importance of Clean Surrounding. *Layers of Atmosphere. *Properties of Air and Water	Students will be able to- 1. understand the major components of air. 2. learn the properties of air and water. 3. understand the importance of clean surrounding. 4.get knowledge about different layers of atmosphere	*Notebook *Diagram *Think hard: If a burning candle is covered by a glass, it soon goes out	Activity :* Cleaning the school surrounding. *Demonstration Experiments-Air has weight/Air occupies space/Air exerts pressure/Filtration and Sedimentation *Educational Videos on layers of atmosphere Teaching Learning Strategies : Experimental Approach	Living Science (Reference book from School library)	*Life Skills- Problem Solving, Social Awareness, Respect for Nature Critical Thinking, Decision making, Environmental sensitivity *Geography	
4	August No. of Periods-10 3.Skeletal System and Nervous System Subtopics- *Functions of Skeleton *Types of joints *Voluntary and Involuntary Muscles *Nervous system and structure of nerve cell.	Students will be able to- 1. understand functions of the Skeletal and Nervous System. 2. identify different types of joint and their locations in the body 3. understand structure and function of the nervous system 4. correlate sense organ with their functions. 5. learn to draw The Human Eye	*Notebook *Worksheet	Visit to biology lab to understand Skeletal system and part of Human Eye using Model. Teaching Learning Strategies : Collaborative and Visual Learning	Biology lab (Chart papers, Models)	*Life Skills- Problem Solving, Self Awareness, Critical Thinking, Scientific attitude, Laboratory etiquettes *Art *English	

5	August No. of Periods-8 5.Our Environment Subtopics- *Causes and effects of-Air,Water,Noise and Land Pollution. *Need to protect Environment	Students will be able to- 1. understand the causes and effects of-Air,Water,Noise and Land Pollution. 2.learn to protect our environment by taking various precautionary measures.	*Notebook *Activity (Collect information regarding thr Scheme started by Government -Namami Gange against water pollution)	Activity : Slogan writing Teaching Learning Strategies : Problem based learning, Technology Integration, Activity based learning, Nature walk	Educational Videos	*Life Skills- Problem Solving, Social Awareness, Respect for Nature Critical Thinking, Decision making, Environmental sensitivity *Art *Geography	
6	September	First Terminal Examination, September 2025					
7	October No. of Periods- 10 Animal Habitats and Adaptations Subtopics- *Adaptive features in different types of plants and animals. *Adaptation in animals for food,climate, behaviour and protection. *Migratory animals and birds.	Students will be able to 1. understand the adaptive features in different types of plants and animals. 2. explain different adaptation in animals for food,climate, behaviour and protection. 3.get information about migratory animals and birds.	*Notebook *Peer Assessment	Activity- Make a scrapbook of migratory birds and animals. Teaching Learning Strategies : Inquiry based learning	*Textbook *Educational Videos -https://youtu.be /lupmbuvRGKQ?si=lor0ZU2ImT7jpU88	*Life Skills- Interpersonal relationship, Problem Solving, Critical Thinking, Creative Thinking, *Art *Geography	

8	November No. of Periods- 15 Safety and First Aid Subtopics- *Causes of Accident(Fire Hazard, Snake Bite, Wounds and Sprains, Nose bleeding)	Students will be able to - 1. understand the causes of accident and safety aid for the same. 2. make and use first aid treatment during emergency	*Notebook *Group discussion	Activity-Making a First Aid Kit Teaching Learning Strategies : Collaborative Learning, Activity based learning	*First aid box	*Life Skills- Problem Solving, Critical Thinking, Decision making, *Art	
8	December No. of Periods- 11 Matter Subtopics- *States of matter *Properties of matter *Physical and Chemical Change	Students will be able to- 1. understand and identify the states of matter and learn its properties. 2. learn about the physical and chemical changes around.	*Notebook *Collaborative activity	Activity -Chart making on Interchange of matter Teaching Learning Strategies : Technology Integration, Active Engagement	NCERT Textbook Std IX	*Life Skills- Problem Solving, Critical Thinking, Decision making, Social Awareness. *Art *English *Mathematics	
9	January No. of Periods-10 Force and Energy Subtopics- *Force and its types. *Energy and its types. *Effects of force. *Simple Machines.	Students will be able to - 1. understand and identify the different forces applied. 2.learn about the effects of force. 3.understand the working of simple machines.	*Notebook *Worksheet	Activity -*Make a model of a simple machine. *Fixing a screw with the help of screw driver Teaching Learning Strategies : Technology Integration, Collaboration	*Tool box	*Life Skills- Problem Solving, Critical Thinking, Creative Thinking,, Social skills. *Art *English *Mathematics	

10	February No. of Periods-13 Light and Shadow Subtopics- *Transparent, translucent and opaque objects. *Shadows.	Students will be able to- 1. understand and identify the transparent, translucent and opaque objects. 2. learn about the shadow and properties.	*Notebook *Peer discussion	Activity- *Discuss in group and list down few luminous and non-luminous objects around. *Draw the shadow of the objects. Teaching Learning Strategies : Active Engagement, Meta-Cognition Strategy (Plan-Monitor-Evaluate)	*Textbook	*Life Skills- Problem Solving, Critical Thinking, Creative Thinking, Commu skills, Social skills. *Art *Geography	
11	Second Terminal Examination, March 2026						

Sr.No	Month	Topic	Learning Outcome						
9	Month	7. Chemical Around the Houses.	Students will be able to - 1. identify household chemicals. ii) learn how one substance change into new substance. 3. classify the substances as Acids or Bases.	Lab Activity : Students will practically see change in colour after we add acids / base in particular solution.	Notebook Assessment				
10	January (25 days)	What the Body is made of?	Students will be able to - 1. differentiate between Simple and Compound Machines 2. classify the simple machine into Lever, Pulley, Inclined Plane, Screw and Wheel and Axle.	Model Making : Students will make any one simple machine at home.	Second Unit Test				
11	February (23 days)	9. Sound	Students will be able to - 1. learn and explain how sound can be produced. 2. understand the mechanism of hearing. 3. classify the given object into soft and loud sound.	Experiment: Sound needs an medium to travel.	Notebook Assessment				
12	March	Revision			Second Terminal Examination				

Sr.No	Month		Learning Outcome					
5	Month		Students will be able to - 1. classify animals as Carnivores, Herbivores, Omnivores based on the food they eat. 2. differentiate between Parasites and Saprophytes.	Lab Activity: Students will develop mucor(fungus) on stale bread or chapatti and observe it carefully.	Notebook Assessment			
6	September (24 da	What the Body is made of?			First Terminal Examination			
7	October (24 days)		Students will be able to - 1. understand the adaptive features in different types of plants and animals. 2. explain different adaptation in animals for food,climate, behaviour and protection.	Educational Videos				
	November (15 days)		Students will be able to - 1. identify different states of matter. 2. differentiate between states of matter. 3. identify different types of changes taking place in our surrounding.	Worksheet				