First Term Curriculum
Subject: Science
Class: V
Session: 2026-27

	April	May	June	July
Content	***Reproduction in Plants** ***Types of Animals**	***The Skeletal System, Muscles,Nervous System and Respiratory system**	***Conservation and Waste Management** ***Health and Diseases, Safety and First aid**	***Health and Diseases, Safety and First aid**
Learning Outcomes	**Students will be able to:** -Explain the structure of a seed and enlist the conditions required for seed germination. -Analyze the various ways of seed dispersal. -Compare the different types of crops on the basis of soil and climate. -Identify the body parts involved in the movement of animals. -Categorize the animals on the basis of breathing organs and body coverings. -Differentiate the animals based on their feeding habits.	**Students will be able to:** - Identify and analyze the major parts of the skeletal system (bones, joints), muscular system (muscles, tendons), nervous system (brain, spinal cord, nerves) ,respiratory system (nose,windpipe ,lungs) and understand their interconnection in body movement and control. -Discuss the functions of the Skeletal, muscular system,nervous system and respiratory system -Recognize and distinguish the different kinds of bones and joints based on their structure and movement.	**Students will be able to:** - Identifies different types of pollution and explains their causes and effects on the environment. -Classifies resources as renewable and non-renewable and describes the importance of their conservation. -Differentiates between biodegradable and non-biodegradable waste with suitable examples. -Analyze the components of a balanced diet. -Differentiate and enlist communicable and noncommunicable diseases.	**Students will be able to:** -Discuss the importance of hygienic conditions, rest, exercise etc. in preventing diseases and living a healthy life. -
Skills	Cognitive skills: Critical thinking, problem solving, observation and analysis Practical and technical skills: Use of tools Communication skills: Scientific communication, listening and interpretation Emotional and social development: Curiosity and exploration, responsibility and ethics	Cognitive skills: Critical thinking, problem solving, observation and analysis Communication skills: Scientific communication, teamwork, listening and interpretation Emotional and social development: Curiosity and exploration, responsibility and ethics Academic and career readiness: Scientific literacy	Cognitive skills: Critical thinking, problem solving, observation and analysis Practical and technical skills: Data collection and recording, use of tools and technology Communication skills: Scientific communication, teamwork, listening and interpretation Emotional and social development: Curiosity and exploration, responsibility and ethics Academic and career readiness: Scientific literacy	Cognitive skills: Critical thinking, problem solving, observation and analysis Practical and technical skills: Data collection and recording, use of tools and technology Communication skills: Scientific communication, teamwork, listening and interpretation

				Emotional and social development: Curiosity and exploration, responsibility and ethics. Academic and career readiness: Interdisciplinary Learning, scientific literacy.
Activities	**Competency Skill based Activities/ Experiential learning Activities** * To show the internal structure of seed (Sprouting) *Visit to the school garden to explore various types of plants/crops. * Role play on organic farming. *Make a report on major seasonal and harvest festivals that are celebrated in India. * Slogan writing on save animals (**Integration with Art, English and S.St)** **Visit:** Visit to farm	**Competency Skill based Activities/ Experiential learning Activities** *Pictorial explanation of Human Skeleton *Role Play on various organ Systems *X-Ray Art Students trace their hand or body parts on black paper.Using chalk, they draw bones inside the outline (like an X-ray) *Image study of different body systems. *Neural Network Role Play Students act out how signals travel, showing both thinking and reflex actions. **(Integration with Art and Physical Education)**	**Competency Skill based Activities/ Experiential learning Activities:** ***Art Integrated Project** "Waste Watch: State Comparison" Compared waste management practices between two states to understand differences in segregation, recycling, and sustainability efforts. *Visited a vermicomposting pit to observe the conversion of organic waste into manure using earthworms. *Preparation of your diet chart for a week. *File Presentation: Any two deficiency diseases on the following head: cause, symptoms and ways to prevent these diseases. **(Integration with Art and English)**	**Competency Skill based Activities/ Experiential learning Activities** ***A Physical Education teacher will deliver a lecture on safety rules to be followed in various situations. **(Integrated with Physical education)**
Assessments	**Pen – paper test, Observation, Diagrams, Report, Tabular information, Concept map, HOTs, Reasoning questions, Search work, Model, Quiz, Value based questions, C.W and H.W**			
	Main Book: : Cambridge Splendid Science (New Edition) **Publisher: Cambridge University Press**			

Final Term Curriculum
Subject: Science
Class: V
Session: 2026-27

	August	September	October/November	December
***C*ontent**	***Solids, Liquids and Gases** ***Rocks and Minerals**	***** Rocks and Minerals (Cont.)** ***Force, Energy and Simple Machines**	***Earth and Natural Disaster** ***Air and Water**	***Light, Shadow and Eclipses**
Learning Outcomes	**Students will be able to:** -Compare the properties of three states of matter. - Differentiate between solute, solvent and solution. -Enlist and evaluate the various types of changes and properties of substances. -Identify and classify the different types of rocks based on their formation and physical characteristics.	**Students will be able to:** -Explain the formation of different types of rocks through natural geological processes like cooling of magma, deposition of sediments, and heat and pressure. - Discuss the uses of rocks and minerals. -Enlist and compare the types of forces and energy. -Differentiate between the types of simple machines. -Discuss the importance of simple machines. -Enlist and compare the types of forces and energy. -Differentiate between the types of simple machines. -Discuss the importance of simple machines. -Enlist various types of natural disasters. -Explain how earthquakes occur and interpret how seismographs are used to detect and measure the intensity and duration of earthquake vibrations.	**Students will be able to:** -Enlist various types of natural disasters. -Explain how earthquakes occur and interpret how seismographs are used to detect and measure the intensity and duration of earthquake vibrations. -Classify the types of volcanoes based on their eruption activity and describe their characteristics with suitable examples. -Discuss the importance of air and enlist the layers of atmosphere. -Illustrate the composition of air and the properties of air. - Explain the methods of purification of water	**Students will be able to:** -Interpret the phenomenon of rectilinear propagation and reflection of light. -Observes the formation of shadows and the conditions required for their formation. -Differentiates between solar eclipse and lunar eclipse based on the position of the Sun, Earth, and Moon.

		-Classify the types of volcanoes based on their eruption activity and describe their characteristics with suitable examples.		
Skills	Cognitive skills: Critical thinking, problem solving, observation and analysis Practical and technical skills: use of tools and technology Communication skills: Scientific communication, teamwork, listening and interpretation Emotional and social development: Curiosity and exploration, responsibility and ethics Academic and career readiness: Scientific literacy	Cognitive skills: Critical thinking, problem solving, observation and analysis Practical and technical skills: use of tools and technology Communication skills: Scientific communication, teamwork, listening and interpretation Emotional and social development: Curiosity and exploration, responsibility and ethics	Cognitive skills: Critical thinking, problem solving, observation and analysis Communication skills: Scientific communication, teamwork, listening and interpretation Emotional and social development: Curiosity and exploration, responsibility and ethics Academic and career readiness:Interdisciplinary learning and scientific literacy	Cognitive skills: Critical thinking, problem solving, observation and analysis Practical and technical skills: use of tools and technology Communication skills: Scientific communication, teamwork, listening and interpretation Emotional and social development: Curiosity and exploration, responsibility and ethics Academic and career readiness: Interdisciplinary learning and scientific literacy
Activities	**Competency Skill based Activities/ Experiential learning Activities** ***Role play**: compare properties of three states of matter ***Lab activity:** solubility of substances and types of changes. *Display samples of rocks (or pictures if samples are not available). Students observe and classify into igneous, sedimentary, and metamorphic based on features. **Visit** A visit to Bajaura Temple will be conducted to observe rocks used in construction. **(Integration with Art and S.St)**	**Competency Skill based Activities/ Experiential learning Activities** *Students create a rock collage or mandala using small pebbles to connect science with art. *Simple Machine Scavenger Hunt students can find and list at least 5 simple machines at home or school. For each item, students note: Type of simple machine Purpose of the machine How does it makes work easier? **(Integration with Art)**	**Competency Skill based Activities/ Experiential learning Activities** *Volcanic eruption will be demonstrated using a model. * A working model of a seismograph will be created. * Demonstration of properties of air. **(Integration with IT and Art)**	**Competency Skill based Activities/ Experiential learning Activities** * Search work: Festivals celebrated based on the phases of the moon. * Students creatively demonstrate the concepts of solar and lunar eclipses through role play and shadow simulation. **(Integration with English and Art)**
Assessments	**Pen – paper test, Observation, Diagrams, Report, Tabular information, Concept map, HOTs , Reasoning questions, Search work, Model, Quiz, Value based questions, C.W and H.W** **Main Book: : Cambridge Splendid Science (New Edition)** **Publisher: Cambridge University Press**			