

	April	May	June	July
Content	*More About Plants *Animals and their Adaptations	* The Skeletal System, Muscular System and the Nervous System	* Good Health, Safety and First Aid	* Rocks and Minerals
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), and nervous system (brain, spinal cord, nerves) and understand their interconnection in body movement and control. -Discuss the functions of the Skeletal, muscular system and nervous system -Recognize and distinguish the different kinds of bones and joints based on their structure and movement.	Students will be able to: - Analyze the components of a balanced diet. -Differentiate and enlist communicable and noncommunicable diseases. - Discuss the importance of hygienic conditions, rest, exercise etc. in preventing diseases and living a healthy life.	Students will be able to: -Identify and classify the different types of rocks based on their formation and physical characteristics. -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.
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. *Map work related to wildlife sanctuaries * Slogan writing on save animals *Design Your Own Animal – students will create a new animal and think about where it lives and what adaptations it would need (Integration with Art, English and S.st)	Competency Skill based Activities/ Experiential learning Activities *Pictorial explanation of Human Skeleton *Explanation of working of muscles during physical exercise. *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: *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. * Making of first aid box (Integration with Art and English)	Competency Skill based Activities/ Experiential learning Activities *“Rock Art Gallery ” Students will explore different types of rocks used in sculptures and understand their properties and uses in art and architecture. *Rock Commercials Students learn rock uses creatively. Each group picks a rock/mineral and creates a “TV commercial” to sell it. *Slogan on Conservation of Natural Resources. (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 Science Voyage(Revised Edition) Publisher: Cambridge University Press			

	August/September	October	November	December
Content	*Soil *States of Matter	* Force, Energy and Simple Machines *Natural Disasters	*Earth, Sun and Moon	*Air and Water * Changes in Our Environment
Learning Outcomes	Students will be able to: -Identify and distinguish the different layers of soil -Explain the process of formation of soil. -Identify the natural and human-made causes of soil erosion and explain various methods of soil conservation. -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.	Students will be able to: -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. -Classify the types of volcanoes based on their eruption activity and describe their characteristics with suitable examples.	Students will be able to: -Explore the positions, movements and interactions of the Sun, Earth and Moon and explain how they influence natural phenomena. -Identify and compare the various phases of the moon. -Differentiate between solar and lunar eclipses, explain how and when they occur using diagrams	Students will be able to: -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 -Summarize the causes and effects of different kinds of pollution. -Identify and analyze the effect and impact of Greenhouse effect, Acid rain and Global Warming. -Describe the ways to conserve the environment.

Skills	<p>Cognitive skills: Critical thinking, problem solving, observation and analysis</p> <p>Practical and technical skills: use of tools and technology</p> <p>Communication skills: Scientific communication, teamwork, listening and interpretation</p> <p>Emotional and social development: Curiosity and exploration, responsibility and ethics</p> <p>Academic and career readiness: Scientific literacy</p>	<p>Cognitive skills: Critical thinking, problem solving, observation and analysis</p> <p>Practical and technical skills: use of tools and technology</p> <p>Communication skills: Scientific communication, teamwork, listening and interpretation</p> <p>Emotional and social development: Curiosity and exploration, responsibility and ethics</p>	<p>Cognitive skills: Critical thinking, problem solving, observation and analysis</p> <p>Communication skills: Scientific communication, teamwork, listening and interpretation</p> <p>Emotional and social development: Curiosity and exploration, responsibility and ethics</p> <p>Academic and career readiness: Interdisciplinary learning and scientific literacy</p>	<p>Cognitive skills: Critical thinking, problem solving, observation and analysis</p> <p>Practical and technical skills: use of tools and technology</p> <p>Communication skills: Scientific communication, teamwork, listening and interpretation</p> <p>Emotional and social development: Curiosity and exploration, responsibility and ethics</p> <p>Academic and career readiness: Interdisciplinary learning and scientific literacy</p>
Activities	<p>Competency Skill based Activities/ Experiential learning Activities</p> <p>*Make your own soil profile. *To observe the effects of soil erosion.</p> <p>*Role play: compare properties of three states of matter *Lab activity: solubility of substances and types of changes. (Integration with Art and S.St)</p>	<p>Competency Skill based Activities/ Experiential learning Activities</p> <p>*Simple Machine Scavenger Hunt students to 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 it makes work easier?</p> <p>*Making a volcano * Making of an earthquake evacuation plan (Integration with Art)</p>	<p>Competency Skill based Activities/ Experiential learning Activities</p> <p>*Search work: Festivals celebrated based on the phases of the moon. * "Shadow Play – Eclipse Drama" Students creatively demonstrate the concepts of solar and lunar eclipses through role play and shadow simulation.</p> <p>(Integration with IT and Art)</p>	<p>Competency Skill based Activities/ Experiential learning Activities</p> <p>* Demonstration of properties of air. *Making a water purifier *Report on Changing Environment Interview family/community members about changes they've noticed in the last 10–20 years. (Integration with English, Art and Value Education)</p>
Assessments	<p>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</p>			
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