First Term Curriculum
Subject: Science
Class: VI

	April	May	June	July
Content	*** Mindful Eating**	*** Measurement of Length and Motion** *** Temperature and its measurement**	*** Beyond Earth**	*** A Journey through States of Water**
Learning Outcomes	**Students will be able to :** - Investigate and identify the presence of major food components—carbohydrates, proteins and fats—in a given food sample using simple tests and observations. -Compare traditional and modern cooking methods based on fuel usage, health impact, nutritional value retention, and environmental sustainability. -Describe the importance of a balanced diet and explain how the deficiency of specific nutrients (like vitamins, minerals, proteins) can lead to related diseases, along with their symptoms.	**Students will be able to :** -Compare and measure the distance by ancient and modern methods. -Describe different standard units of measurement -Observe and identify different types of motion in surroundings. -Interpret the concept of temperature and different temperature scales -Recognize the need for accurate temperature measurement and differentiate between types of thermometers used in daily life (such as clinical, laboratory, and digital thermometers).	**Students will be able to :** - Identify and describe various celestial object such as stars, planets, moons, asteroids, comets, and meteors based on their characteristics and appearance in the sky. - Explain the structure of the solar system, naming its components (Sun, planets, natural satellites, asteroids, and comets) and describe their movements and relative positions. -Distinguish between comets and asteroids based on their composition, structure, orbits, and visibility from Earth.	**Students will be able to :** **-** Identify and categorize the substances into solid liquid and gases state - Explain how water changes from one state to another through real life example -Analyse and discuss factors that affect the rate of evaporation -Describe the stages of the water cycle
Skills	Cognitive skills: Critical thinking, problem solving, observation and analysis, research skills Practical and technical skills: Data collection and recording Communication skills: Scientific communication, 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	Cognitive skills: Critical thinking, observation and analysis, research skills Communication skills: Scientific communication, teamwork Emotional and social development: Curiosity and exploration, patience and perseverance, responsibility and ethics Academic and career readiness: Interdisciplinary learning	Cognitive skills: Critical thinking, problem solving, observation and analysis Practical and technical skills: Experimentation Communication skills: Scientific communication, teamwork, listening and interpretation Emotional and social development: Curiosity and exploration, responsibility and ethics Academic and career readiness: Scientific literacy

Activities	**Competency Skill based Activities/ Experiential learning Activities** ***** Investigation of food items *Collect food labels of any five different types of packed foods read and record their nutritional value to find out if they are considered healthy. * Search work/ Explore : students will record and make charts describing their diet over a week * Lab Activity: Testing the presence of nutrients in food. **(Integration with Art)**	**Competency Skill based Activities/ Experiential learning Activities** *Measure the length of common objects using ancient and modern methods *Class activity on types of motion using ball, pendulum, toy car, rubber band etc. *Reading of clinical and laboratory thermometer *making of simple thermometer **(Integration with Art and Mathematics)**	**Competency Skill based Activities/ Experiential learning Activities** **Search work** *Activity : "Mission: Solar Explorers" Students will research, analyze and present information about planets and celestial bodies, understanding their unique features and roles in the solar system **(Integration with English, Art and IT)**	**Competency Skill based Activities/ Experiential learning Activities** *Model on water cycle. *Activity-Water race with coins to explain how surface area affects the rate of evaporation. **(Integration with 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**			

Final Term Curriculum
Subject: Science
Class: VI
Session: 2025-26

	August/September	October	November	December / January
Content	***Methods of Separation in Everyday Life** ***Material Around Us**	***Diversity in the living World**	***Fun with Magnets**	***Living Creatures Exploring their Characteristics** ***Nature's Treasure**
Learning Outcomes	**Students will be able to :** -Classify pure substances and mixtures - Compare the various physical processes in separation. - Demonstrate various methods of separation of substances through class activities. -Analyze the importance of classifying materials - Classify objects based on similar properties -Identify and describe key properties of materials - Explain how the properties of materials affect their functionality and use in various objects	**Students will be able to** : - Recognise and describe the diversity of plant and animal species - Classify plants. -Investigate and describe various plant structures. (root, leaf and seed- their types and functions) -Classify animals on the basis of their movement -Explore the adaptive features of various animals and plants to different habitat	**Students will be able to :** -Distinguish between magnetic and non-magnetic materials based on observation and experimentation. -Describe key properties of magnets such as attraction, repulsion, magnetic poles, and the ability to attract certain metals. - Explain the applications of magnets in everyday objects and devices, such as magnetic compasses, refrigerator doors, magnetic strips, speakers, and electric motors.	**Students will be able to:** - Distinguish between living and non living things - Identify and describe the basic characteristics of living organisms. - Draw and describe the life cycles of plants, mosquitoes and frogs - Enlist major natural resources and describe their roles in maintaining ecological balance - Differentiate between renewable and non renewable resources -Analyze importance of forests and soil
Skills	Cognitive skills: Critical thinking, problem solving, observation and analysis Practical and technical skills: Experimentation, Use of tools and technology Communication skills: Scientific communication, teamwork, listening and interpretation Emotional and social development: Curiosity and exploration Academic and career readiness: Scientific literacy	Cognitive skills: Critical thinking, problem solving, observation and analysis Practical and technical skills: Experimentation Communication skills: Scientific communication, 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, research skills Practical and technical skills:Experimentation, Use of tools and technology Communication skills: Scientific communication, teamwork,listening and interpretation Emotional and social development: Curiosity and exploration Academic and career readiness: Scientific literacy, Interdisciplinary learning	Cognitive skills: Critical thinking, problem solving, observation and analysis, research skills Practical and technical skills: Experimentation, Data collection and recording Communication skills: Scientific communication, listening and interpretation Emotional and social development: Curiosity and exploration, responsibility and ethics Academic and career readiness: Scientific literacy

Activities	**Competency Skill based Activities/ Experiential learning Activities:** *Demonstration of various methods of separation of substances through class activities and laboratory Experiments. *Group Activity-Making material Comparison Chart based on properties. *Class Activity:Who am I?Material Edition :Students will identify materials through Clues about their uses and properties. **(Integration with Art)**	**Competency Skill based Activities/ Experiential learning Activities:** *Visit a school garden to explore and observe the diversity. *Demonstration of parts of a plant (root, stem and leaf and Create mini Plant Album. *Experiments related to root, stem and leaf **(Integration with a Art)**	**Competency Skill based Activities/ Experiential learning Activities:** *Experiments related to magnets *Making magnet related games **(Integration with Art)**	**Competency Skill based Activities/ Experiential learning Activities:** *****Activities to explore conditions required for germination and growth of plants. *Comic strip creation Activity representing Life cycle of organisms. *"Nature Detective-Observation talk to identify local 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**			
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