



	April	May	June	July
Content	<p>*Green Plants *Adaptations in Plants</p>	<p>*Animals and their Young Ones *Adaptations in Animals</p>	<p>* Water and Weather *Food: Our Basic Need *Teeth and Digestive System</p>	<p>*Teeth and Digestive System (Cont.)</p>
Learning Outcomes	<p>Students will be able to: -Identify the various parts of a leaf -Describe process of making food in plants -Illustrate the interdependence of plants and animals</p> <p>-Explore plants growing in different areas -Illustrate adaptation in plants -Identify some unusual plants</p>	<p>Students will be able to: -Identify and differentiate between egg laying animals and animals that gives birth to young ones -Describe the structure of an egg -Distinguish between the life cycles of some animals</p> <p>-Analyze the different features of animals suitable to their adaptations with respect to habitat, food, protection and behavior -Recognise animals in danger.</p>	<p>Students will be able to: -Describe water cycle - Illustrate formation of sea breeze and land breeze</p> <p>-Recognize various components of food and their functions -Analyse a balance diet -Apply their knowledge for using different methods of food preservation</p> <p>-Recognize different sets, number and types of teeth in humans</p>	<p>Students will be able to: -Describe a digestive system and process of digestion</p>
Skills	<p>Cognitive skills: Critical thinking, observation and analysis. Practical and technical skills: Use of tools</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, observation and analysis, research skills</p> <p>Practical and technical skills: Use of tools</p> <p>Communication skills: Scientific communication, listening and interpretation</p> <p>Emotional and social development: Curiosity and exploration, responsibility and ethics</p> <p>Academic and career readiness: Scientific literacy, Interdisciplinary learning</p>	<p>Cognitive skills: Critical thinking, problem solving, observation and analysis, research skills</p> <p>Practical and technical skills: Data collection and recording</p> <p>Communication skills: Scientific communication, 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, observation and analysis.</p> <p>Practical and technical skills: Data collection and recording</p> <p>Communication skills: Scientific communication, 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>Activities</p>	<p>Competency Skill based activities/Experiential learning Activities Class Activities *Observe leaves of plants, draw 3 different types of leaves and label their parts.</p> <p>* Draw a comic on the theme of interdependence of plants and animals</p> <p>* Role play on plants</p> <p>* Visit to Nature Park</p> <p>Lab Activities *To test the presence of starch in green leaves / potatoes.</p> <p>(Integrated with Art,English, IT and Mathematics)</p>	<p>Competency Skill based activities/Experiential learning Activities *Diagrammatic representation on life cycle of animals</p> <p>*Search work on animals Students will observe the animals in their surroundings. Make a list of all egg -laying animals and animals that give birth to their babies.</p> <p>*Search work on endangered animals of India. On a map, mark the natural habitats of any three endangered animals found in India.</p> <p>(Integrated with Art, SST and IT)</p>	<p>Competency Skill based activities/ Experiential learning Activities * Water Cycle Model</p> <p>*Weather Observation Activity: Students observe the daily weather (sunny, cloudy, rainy) for a week and record it in a simple chart.</p> <p>*Report on home remedies for stomachache/ toothache</p> <p>Art Integrated Project “From Farms to Plates: Food in Himachal Pradesh and [Paired State].”</p> <p>(Integrated with Mathematics, SST, English and Art)</p>	<p>Competency Skill based activities/ Experiential learning Activities -Diagrammatic representation of the digestive system.</p> <p>(Integrated with Art)</p>
<p>Assessments</p>	<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> <p>Main Book: Cambridge Splendid Science (New Edition) Publisher: Cambridge University Press</p>			



	August	September	October/November	December
Content	*Clothes- Our Protectors	*Circulatory and Excretory Systems	*Natural Resources *Force, Work and Energy	*The Solar System *Solids, Liquids and Gases
Learning Outcomes	<p>Students will be able to:</p> <ul style="list-style-type: none"> -Describe the importance of clothes -Contrast between natural and synthetic fibres -Illustrate the clothes we use in our everyday life 	<p>Students will be able to:</p> <ul style="list-style-type: none"> -identify the heart, blood, and blood vessels and describe their functions -Explain what the excretory system is and its role in removing wastes 	<p>Students will be able to:</p> <ul style="list-style-type: none"> -Define natural resources and give examples -Identify and describe the different layers (topsoil, subsoil, parent rock, bedrock) -Enlist ways to protect natural resources in daily life. -Identify the types of forces -Illustrate about the simple machines -Classify different sources of energy 	<p>Students will be able to:</p> <ul style="list-style-type: none"> -Explore about the eight planets and the sun - Describe about asteroids, meteors, comets, stars and constellations -Demonstrate rotation and revolution of earth -Describe the different states of matter. -Identify the characteristics of solids, liquids, and gases. -Examine whether substances in different states of matter can mix with each other
Skills	<p>Cognitive skills: Critical thinking, problem solving ,observation and analysis,research skills</p> <p>Practical and technical skills: Experimentation</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>Interdisciplinary learning</p>	<p>Cognitive skills: Critical thinking, Problem solving ,observation and analysis,research skills</p> <p>Practical and technical skills: Experimentation</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, observation and analysis,research skills</p> <p>Practical and technical skills: Use of tools</p> <p>Communication skills: Scientific communication,listening and interpretation</p> <p>Emotional and social development: Curiosity and exploration, responsibility and ethics</p> <p>Academic and career readiness: Scientific literacy, Interdisciplinary learning</p>	<p>Cognitive skills: Critical thinking, observation and analysis,research skills</p> <p>Practical and technical skills: Use of tools</p> <p>Communication skills: Scientific communication,team work,listening and interpretation</p> <p>Emotional and social development: Curiosity and exploration, responsibility and ethics</p> <p>Scientific literacy, Interdisciplinary learning</p>

<p>Activities</p>	<p>Competency Skill based activities/Experiential learning Activities</p> <ul style="list-style-type: none"> *Observe different cloth material and collect information about it. *Students draw and label the clothes they wear in different seasons. *Visit to textile factory <p>(Integrated with SST and Art)</p>	<p>Competency Skill based activities/Experiential learning Activities</p> <ul style="list-style-type: none"> *Diagrammatic representation of the circulatory and nervous system. *Pulse Rate Measurement Students will measure their pulse at rest and after light exercise (like jumping or running in place). *Kidney Function Simulation Use a coffee filter or a piece of cloth to filter a mixture of water and small particles. <p>(Integrated with Mathematics and Art)</p>	<p>Competency skill based activities/Experiential learning Activities</p> <ul style="list-style-type: none"> *Resource Identification: Students observe their surroundings and list natural resources like air, water, soil, and sunlight. *Conservation Activity: Students discuss and suggest ways to save water and electricity in daily life. *Slogan writing on 'Saving the Earth' * Chart making on simple machines <p>(Integrated with Art, SST, English and IT)</p>	<p>Competency Skill based activities/ Experiential learning Activities</p> <ul style="list-style-type: none"> * Research about the planets distance from the sun types of gases found on it number of moons it has the time it takes to complete one rotation on its axis and one Revolution around the sun *Create a simple model of the solar system using balls or clay to understand the position of the Sun and planets. *Experiment on changing states of matter *Role play on three states of matter <p>(Integrated with Art and IT)</p>
<p>Assessments</p>	<p>Pen – paper test, Worksheet, HOTS, Reasoning questions, Flow Charts and diagrams, Tabular information, Concept maps, Science Quiz, Search work, Value based questions, C.W and H.W</p>			
	<p>Main Book: Cambridge Splendid Science (New Edition) Publisher: Cambridge University Press</p>			