

OBJECTIVES

1. To develop scientific temperamant
2. To enhance logical skills
3. To enquire and verify given facts
4. To make well-labelled diagrams to enhance creative skills
5. To experience ideas using oral, written, non-verbal communication skills

GENERAL SKILLS TO BE DEVELOPED

1. Observational skill - Observe the given situation carefully
2. Diagramatic representation - to be able to draw and label diagrams
3. Creative thinking - express ideas in the form of a paragraph, make projects etc.
4. Analytical reasoning - analyse situations and give reasons for the same
5. Identification - to identify different parts of a diagram, model, skeleton
6. Content organisation - to be able to answer or express themselves in their notebook and assessments in writing.

TERM 1

S,NO	Concept	Objectives	Skills	Learning Styles	Activity	Subject Integration	Outcome	Assessment
1	Plant Reproduction	<p>Recall parts of plants, types of plants</p> <p>Comprehend and define reproduction, germination and dispersal of seeds</p> <p>Observe the plants of school garden and the process of seed formation</p> <p>Analyse the process of seed dispersal</p> <p>Analyse and observe and draw different parts of seeds</p> <p>Apply- identify the food items that are seeds of plants</p> <p>Distinguish between dicot and monocot</p> <p>Create diagram showing various stages of germination of a dicot seed</p> <p>Evaluate the conditions necessary for germination</p> <p>Justify the need of dispersal of seeds by different agents</p> <p>List out the different ways of vegetative reproduction</p> <p>List out the various stages of crop production</p>	<p>Speaking</p> <p>Observational</p> <p>Analytical</p> <p>Creative</p> <p>Critical thinking</p> <p>Application</p> <p>Evaluation</p> <p>Listening</p>	<p>Linguistic</p> <p>Interpersonal</p> <p>Visual</p> <p>Naturalistic</p> <p>Bodily</p> <p>Logical</p>	<p>Discussion on Plant parts, types</p> <p>Nature walk in the school garden</p> <p>Separating parts of seeds and pasting A4 size and drawing the diagram in note book</p> <p>Showing Dicot, Monocot seeds in class</p> <p>Shown -Dandalion,Maple seeds, Xanthiam</p> <p>Class activity to show conditions necessary for germination of seeds.</p> <p>Showed parts of seed- swollen and soaked</p>	<p>Social</p> <p>Science:Differe nt types of crops produced in India and different stages of crop production.</p>	<p>The students will be able to:</p> <p>To define with example the process of reproduction, germination and dispersal of seeds ,as well as their importance in plant life.</p> <p>Differentiate dicot and monocot seeds</p> <p>List out the various agents of dispersal</p> <p>Identify the conditions necessary for germination</p> <p>Understand parts of seed also draw diagram</p>	<p>Pen paper test</p> <p>Class test</p> <p>assessment</p> <p>Term 1</p>
2	World of Animals	<p>Recall adaptations of plants and animals according to their habitat</p>	<p>Listening</p>	<p>Linguistic</p>	<p>Drawing the diagram</p>	<p>Social</p> <p>Science:Differe</p>	<p>The students will be able to:</p>	<p>Unit test</p>

		<p>List out and discuss various breathing organs in animals</p> <p>Create diagrams showing human lungs, fish gills and spiracles</p> <p>Understand the different feeding habits, herbivores and carnivores</p> <p>Compare and contrast organs of movement of herbivore and carnivore</p> <p>Infer why some animals migrate to different places</p> <p>Analyse the movement of animals in water and their body parts adapted to aquatic conditions</p> <p>Application of stream-lined body in movement of water animals and animals in air</p> <p>create diagrams showing organ of movement in water animals</p> <p>Body Coverings</p>	<p>Speaking</p> <p>Reading</p> <p>Evaluating</p> <p>Diagrammatic Expression</p> <p>Analytical Application</p>	<p>Interpersonal</p> <p>Visual</p> <p>Logical</p>	<p>Paste or draw body coverings</p> <p>Discussion on plants' and animals' adaptation</p> <p>Students will share their knowledge on organs of movement of animals</p> <p>student will paste 3-4 pictures of migratory animals</p> <p>Paste or draw aquarium</p> <p>Feeding habits of various animals around us</p>	<p>nt landforms of the world and animals living there</p> <p>Define and give examples of different animals having their feeding habits</p> <p>draw diagram of breathing organs</p> <p>organs of movement</p> <p>understand the various adaptive features of animals living in water and in air</p> <p>list or some examples of migratory birds and why they migrate</p> <p>identify the condition necessary for migration</p>	<p>Notebook assessment</p> <p>Term 1</p> <p>class test</p>	
3	Skeletal, Muscular and Nervous system	<p>To enable the children to:</p> <p>Analyse what are bones, draw and comprehend its structure</p> <p>analyse various parts of skeleton and their functions</p> <p>evaluate why adults have less bones than child</p> <p>define, comprehend muscles along with their types and functions</p> <p>evaluate why muscles work in pairs</p> <p>comprehend the parts of nervous system and their functions</p> <p>identify the functions of each part of the brain</p> <p>list the types of nerves along with their location and function</p> <p>define and analyse reflex action with example</p> <p>list out various sense organs and recall their functions</p> <p>evaluate how to take care of sense organs</p>	<p>Listening</p> <p>Speaking</p> <p>Reading</p> <p>Evaluating</p> <p>Diagrammatic Expression</p> <p>Reasoning</p> <p>identification</p>	<p>Bodily Kinesthetic</p> <p>Linguistic</p> <p>Intrapersonal</p> <p>Visual</p> <p>Logical</p>	<p>stick diagram of skeleton</p> <p>list 5 exercises, bones, joints, muscles in tabular form</p> <p>Paste and label parts of skeleton</p> <p>shown video clips on joints</p>	<p>Art -Diagrams</p> <p>physical education - yoga, exercises to keep themselves fit</p>	<p>The students will be able to:</p> <p>list various parts of nervous system and their functions</p> <p>draw diagrams</p> <p>know the difference between the activities controlled by spinal cord and activities</p> <p>explain the working of sense organs</p> <p>take care of sense organs properly and find out better ways to be healthy</p> <p>identify and learn functions of various parts of skeleton</p> <p>understand the importance of joints and muscles</p>	<p>Unit test</p> <p>Notebook assessment</p> <p>Term 1</p> <p>class test</p>
4	Safety and First Aid	<p>apply knowledge to understand the key to safety in common sense and alertness</p> <p>apply the basic safety rules in daily life</p>	<p>Reading</p> <p>Recollection</p>	<p>Bodily Kinesthetic</p> <p>Visual</p>	<p>writing emergency contact numbers</p> <p>Group Discussion on the basis of prior knowledge</p>	<p>Art -Diagrams</p> <p>physical education - use</p>	<p>The students will be able to:</p> <p>Recall the need for safety</p>	<p>class test</p> <p>Unit test</p>

		analyse the various accidents that happen at home and their preventive measures learn some ways to be safe on the road Define first aid and some terms related to it (ice pack, sling, splint, tourniquet) Apply knowledge to find out first aid given during common emergencies-- (treating burns, cuts and scratches, animal bites, sprains, fractures, heat strokes, fire)	Listening Speaking Evaluation Application Expression Content- Organisation	Intrapersonal Group discussion Writing Logical	draw some road signs Dadi ma ki potli and home remedies learn some common traffic rules Make a first aid kit to be kept at home and used in case of emergencies	of first-aid box	Understand that common sense and alertness are needed to prevent accidents learn and apply safety rules in daily life analyse the accidents that happen at home along with their preventive measures make and use the first-aid box at home and in school	Notebook assessment Term 1 ki potli and Home Project-- First aid box
5	Rocks and Minerals	list out various layers of earth comrehend various types of rocks with examples analyse the treasures of earth (coal and petroleum evaluate the importance of conserving natural resources	Reading Listening Speaking Application Expression group work	Visual naturalistic Interpersonal Logical	diagrams - layers of earth collection of different types of rocks map activity - show states having different minerals pasting - pictures of historical monuments and writing names of rock it is made up of	Social Science:lessons on rocks and minerals Art -Diagrams	The students will be able to: various layers of earth types of rocks ways to conserve natural resource	class test Unit test Notebook assessment Term 1
6	Soil	To enable the students to: Understand the terms soil and its formation Analyse that soil is made of various components as air, water,minerals,organic matter Evaluate that based on composition soil can be of different types Understand the terms soil erosion and conservation Identify the steps to conserve the soil	Analyse Observation Social skill(Awareness about environment)	Linguistic Verbal Nature smart Bodily Kinesthetic Naturalistic	Spellog and exercises , class quiz and discussions during teaching Activity- Collect 4-5 samples of soil and observe their texture and colour Newspaper cuttings to show soil erosion and conservation (collage) Class discussion on how spil can be conserved	Social Science -- Types of soil in India	At the end of the lesson the students will be able to composition of soil different types of soil term - soil erosion and soil conservation ways to conserve the soil	Quiz Class test Written work Term 1
TERM 2								
7	Matter Around Us	Comprehend the constituents of matter Understand the element, compound, physical and chemical change	Critical thinking Speaking	visual musical	to show molecular development in 3 states of matter students will demonstrate the solubility of different substances in water	Social Science -- snow, humidity, covered mountains and other water	At the end of the lesson the students will be able to List out the 3 states of matter with examples	Term 2 class test

		Listing out the 3 states of matter Analyse the changes in matter from one state to another	Listening Reading	intra-personal inter-personal	to show that water exists in 3 states share their experience about physical and chemical changes	Other water bodies found in nature	differentiate between physical and chemical changes understand why water is called universal solvent	Unit test Notebook assessment
		Evaluate the solubility of different materials in water List out the difference between physical and chemical changes		Linguistic Bodily Kinesthetic	video clips paper folding and paper cutting activity			
	Force Work and 8 Machine	Define force, work and energy	Speaking	intra-personal	Spellog and discussions	Social Science -- reason for environmental pollution	At the end of the lesson the students will be able to	Term 2
		comprehend the effect of force	Listening	inter-personal	group discussions and answering logical questions		define & comprehend simple and compound machine	class test
		list and understand the different types of forces	Reading	Logical	view few simple machinees	sources of energy	understand the application of machines	Unit test
		analyse that energy is of different form	Observation	visual	correlate types of lever with various examples		analyse the different forms of energy and ways to save it	Notebook assessment
		understand the law of conservation of energy understand and comprehend the types of simple machine	Application	Bodily Kinesthetic Naturalistic	tabulate 5 objects where conversion of energy takes place	art- diagrams of simple machine		
	Health and 9 Hygiene	components of food, water and roughage	Speaking	inter-personal	discussion and sharing knowledge about food and its components	physical education - yoga asana done for better digestion	At the end of the lesson the students will be able to	Term 2
		apply how eating good food results in good health	Listening	intra-personal	keywords- major concepts	Social Science -- economic status related to mal-nutrition	define balanced diet, diseases and its types	class test
		analyse the role of water in protecting the delicate organs of body	Reading	Logical	activity-compare and analyse nutritional benefits and disadvantages of components written on the pack of processed food		list out the symptoms and cure for various diseases	Unit test
		comprehend and define balanced diet and its role in maintaining health along with exercise, rest and sleep	evaluation	Bodily Kinesthetic	shopping list of items required to make balanced diet for the whole day		understand the importance of balanced diet	Notebook assessment
		define diseases and its type list out disease along with their symptoms analyse why blood is red in colour	comprehention analytical	Linguistic	discussion of types of diseases			
	10 Air and Water	to know the layers of atmosphere	Speaking	visual	charts and diagrams	Social Science -- lessons about weather	At the end of the lesson the students will be able to	Term 2

		to list and explain the properties of air	Listening	Bodily Kinesthetic	experiments in book	language-poems on air and water	know and understand layers, composition and properties of air	class test
		to understand the composition of air and its uses	Reading	inter-personal	video clips	art-scene of mountain and craft paper boats	ways of purifying water	Unit test Notebook assessment
		evaluate why water is universal solvent analyse ways of water purification	experimental expression	intra-personal Naturalistic	model of pollution catcher			
11	Natural Calamities	understand various natural calamities	Speaking	Bodily Kinesthetic	know about various natural disasters, their dates and severity	maths-methods to measure earthquake	At the end of the lesson the students will be able to	Term 2
		define earthquake, methods of measuring it and its effect	Listening	inter-personal	know about NGOs which take care of natural calamities' victims	Social Science -- natural calamities	know and define various natural calamities	class test
		to know about volcano, its types and effect	Reading	intra-personal			know effect of flood and drought	Unit test Notebook assessment
		analyse the cause of tsunami evaluate the effects of flood and drought	Observation experimental	Naturalistic				
12	Moon and Artificial Satellite	introduction of term - natural and artificial satellite	Speaking	visual	spellog and discussion	Social Science	At the end of the lesson the students will be able to	Term 2
		comprehend the surface of moon	Listening	Logical	showing pictures drawing diagrams - eclipse and phases of moon		know more about earth and its natural satellite	class test
		analyse why life is not possible on moon	Reading creative application	inter-personal			its surface and how it effects our lives	Unit test Notebook assessment
		list out the Indian festivals, based on moon creative diagrams, models of eclipse and phases of moon evaluate the cause of tides analyse the cause of eclipse	analytical	intra-personal Bodily Kinesthetic	video clips - solar and lunar eclipse information about spacecraft and astronauts of India role-play			