

**The Orchid School
Baner
Syllabus Overview 2015- 2016
Std : IV
Subject : Science**

Month	Lesson / Content / Name of the Book	Expected Learning Objective	Activities/FAs Planned
APRIL	1. More about Flowers	● Students will be able to understand the diversity in flowers and different uses and purposes in daily life.	Collect different kinds of flowers and segregate them according to their shape, type and size.
	<ul style="list-style-type: none"> ● Features of flowers ● Different flowers bloom at different times ● Uses of flowers ● Preserving flowers 	Students understand the uses of flowers and the ways of preserving them.	Use dried flowers and make thank you cards to be used for so.sc. Project.
	2. Uses of Plants <ul style="list-style-type: none"> ● Food from plants ● Other uses of plants 	Students will be able to state the uses of plants. Students will be able to list the parts of the plants used as food.	● Sow a seed activity
	<ul style="list-style-type: none"> ● Animals depend on plants ● Importance of Van Mahotsav 	<ul style="list-style-type: none"> ● Identify the uses of plants for animals # Discuss the importance of plants to conserve nature in our society. # State the importance of Van Mahotsava. 	Workbook- Write a letter to your friend telling him about the importance of Van Mahotsav
JUNE	Ls. 3 Kinds of Plants <ul style="list-style-type: none"> ● Wild and Domestic Plants 	Students understand that there are different kinds of plants and they have different physical features.	

	<ul style="list-style-type: none"> ●Land and Water Plants ●Kinds of water Plants 	Students will be able to state with examples the kinds of plants.	
	LS. 4. Food for Plants <ul style="list-style-type: none"> ●Plants make their own food 	Students will be able to recognise and describe the process of Photosynthesis.	
	<ul style="list-style-type: none"> ●Photosynthesis and its importance 	Students will be able to conduct the experiment to show the process of photosynthesis. Students will be able to write in the form of an experiment the process of photosynthesis.	<ul style="list-style-type: none"> ●Experiment on need for chlorophyll for photosynthesis
FA 1			
JULY	5. Kinds of Animals : <ul style="list-style-type: none"> ●Dividing Animals into Groups ●Birds, mammals and fish 	<ul style="list-style-type: none"> ●Students will be able to differentiate animals on the basis of their physical features 	
	<ul style="list-style-type: none"> ●Amphibians and Reptiles ●Vertebrates and Invertebrates 	<ul style="list-style-type: none"> ●Students will be able to differentiate between amphibians and reptiles. ●Students will be able to differentiate between 	<ul style="list-style-type: none"> ●Project on vertebrates and invertebrates.
	6. More about Insects: <ul style="list-style-type: none"> ●Parts of insects ●Insects- home, food, life span ●lifecycle of an ant ●Cooperation among ants 	<ul style="list-style-type: none"> ●Students will be able to state the different characteristics of insects and the food they eat. ●Students will be able to state with the help of the diagram of the life cycle of ants 	<ul style="list-style-type: none"> ●With reference to the life cycle of the ant draw the life cycle of butterfly using a paper plate.
	7. Life Cycle of Animals: <ul style="list-style-type: none"> ●Life cycle of a bird ●Life cycle of a frog ●Life cycle of a butterfly ●Caring for the young 		<ul style="list-style-type: none"> ●Watch a video of the life cycle of an ant
AUG	8. Where Animals Live <ul style="list-style-type: none"> ● Animals and their adaptations ●Physical features of land animals ●Physical feature of fish ●Physical features of amphibians 	<ul style="list-style-type: none"> ●Students will be able to explain how physical features help to survive in different geographical regions. 	

	<ul style="list-style-type: none"> ●Physical feature of fish ●Physical features of amphibians 		<ul style="list-style-type: none"> ●Research on that part of the fish which helps them move in the water.
	9. Our Teeth: <ul style="list-style-type: none"> ●Parts of a tooth ●Different types and functions of teeth ●Milk and permanent teeth ●Ways to take care of Teeth 	<ul style="list-style-type: none"> ●Students will be able to draw and label the structure of a tooth. ●Students will be able to state the different types of teeth and their functions. ●Students will be able to Identify the four types of teeth present in our mouth. ●Students will be able to differentiatr between milk teeth and permanent teeth. 	<ul style="list-style-type: none"> ●Visitor- Talk with a dentist ●Learning about the structure of teeth using a model of teeth.
	10. Digestion <ul style="list-style-type: none"> ●The Meaning of Digestion ●The Process of Digestion●Some Internal Organs ● Advancement in medical technology 	<ul style="list-style-type: none"> ●Student will be able to sequentially list the steps of digestion. ●Students will be able to describe functions of lungs, heart, brain and kidneys. 	<ul style="list-style-type: none"> ● Activities to test sense organs. ●Observing a model of human digestive system and some internal organs in the science lab.
FA 2			
SEPT	11. Balanced Diet <ul style="list-style-type: none"> ●The Meaning of Balanced Diet. ●Different types of food groups ● 5 types of Nutrients. 	<ul style="list-style-type: none"> ●Students will be able to explain the importance of an adequate, regular and balanced diet. ●Students will be able to explain the importance of eating food items from all the 5 food groups. 	<ul style="list-style-type: none"> ●Make a daily planner for the food items eaten by you during the week and determine if you are following a healthy diet based on the 5 food groups. ●Draw a food pyramid
	Revision week		
	Summative Assessment		
	Summative Assessment		
SA 1			

Oct			
	Assembly presentation		
	11. First Aid: First aid for burns, fracture, snake bits , bee stings, Unconscious persons.	●Students will be able to explain the importance of first aid and steps to be followed in different situation.	●List the materials required in the first aid box and state their use.
NOV	Ls. 13- Nutrients in food Introduction	●Students will be able to identify 5 different types of nutrients in food.	
FA 3			
DEC	13. Nutrients in food: (Contd.) ●Foods with carbohydrate ●Foods with Proteins ●Foods with protein ●Foods with fats ●Roughage	●Students will be able to identify food which contains carbohydrates with the help of iodine solution test. ●Students will be able to identify food which contains protiens with the help of test. ●Students will be able to identify food which contains fats with the help of tissue paper. ●Students will be able to state the importance of roughage in our daily diet.	
	Revision Week for FA3		
	FA3		
	Christmas Party		

Jan	19. Energy ●Definition of energy ●Kinds of energy Sources of energy ●Renewable and non renewable sources of energy	●Students will be able to define energy. ●Students will be able to state the different kinds of energy.Students will be able to state the sources of energy ●Students will be able to differentiate between renewable and non-renewable sources of energy	Perform simple experiments to show the transformation of energy from one form to other.
	20.Sun and the Weather ●Effects of season ●Changing seasons ●Sun and the Rain ●Weather and seasons	●Students describe the causes of seasons and change in weather.	
	21. The Solar System Planets in the solar system Asteroids, Meteors and Comets Artificial satellite and their uses.	●Students describe the solar system and the position and movements of heavenly bodies with respect to the sun. ●Students will be able to differentiate between meteor and comet. ●Students will be able to state the uses of artificial satellites.	Research on space debris.
FEB	14. Drinking water : ●Available drinking water ● Water scarcity ●Keeping drinking water clean	●Students come to know that drinking water or clean water needs to be saved as there is scarcity of water.	●Experiments on water. ●Save water campaign in school
	15. Water Purification: ●Filtration ●Sedimentation and Decantation ● Boiling Water ●Chlorination	● Students come to know that water needs to be purified before drinking and several methods are used to purify the water.	Experiments showing water purification techniques
	16. Evaporation and Condensation ●Evaporation and condensation ●Wind and Evaporation ●The water cycle ● Use of a Rain Gauge	Students will be able to define the terms evaporation and condensation. Students will be able to perform simple experiments to show evaporation and condensation. ●Students will be able to draw and label the water cycle	●Make a rain gauge

	<p>17. Kinds of wind :</p> <ul style="list-style-type: none"> ●Kinds of wind ●Formation of wind ●Land and sea breeze ● Monsoon Winds 	<ul style="list-style-type: none"> ●Students will be able to state the kinds of wind. ●Students will be able to explain with the help of a diagram the formation of winds. ●Students will be able to differentiate between land and sea breeze with the help of a neat and labelled diagram. ●Students will be able to state the formation of monsoon winds. 	<ul style="list-style-type: none"> ●Using waste material, make a model of the anemometer.
MARCH	<p>18. Air Pollution:</p> <ul style="list-style-type: none"> ●Introduction to air pollution ●Causes of air pollution ●Effects of air pollution ●Affects of air pollution on Taj Mahal 	<ul style="list-style-type: none"> ●Students will be able to state the causes of air pollution on environment and humans 	<ul style="list-style-type: none"> ●Poster making activity on global warming.
	<p>24. Soil Erosion:</p> <ul style="list-style-type: none"> ●Formation of soil ●Agents of soil erosion ●Causes and effects of soil erosion ●Prevention of soil erosion 	<ul style="list-style-type: none"> ●Students will be able to explain the formation of soil. ●Students will be able to state the agents of soil erosion. ●Students will be able to state the causes and effects of soil erosion. ●Students will be able to state the ways to prevent soil erosion. 	
	Revision week		
SA2			