

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

Month	Lesson / Content / Name of the Book	Expected Learning Objective	Activities/FAs Planned
MARCH -APRIL	<i>No School</i>		
	Ch.1-Food Food & nutrients Sources of food	All students will be able to explain the main functions of food and identify the sources of food.	Whole class discussion.
	Food habits,Food chain. Ch.2-Componets of Food Carbohydrates, Fats,Protiens, minerals and vitamins.	All the students will be able to understand the classification of animals into herbivores, carnivores and omnivores on the basis of their food habits. They will be able to explain the interdependence of animals on eachother via the food chain. Students will be able to explain what is our food made up of and why do we eat a variety of food.They will be able to explain the importance of nutrients like carbohydrates, fats and protiens in our food.	Draw a food chain in 3 steps and explain the energy flow. Prepare a map of India and identify the food culture of different regions.
	Water, Roughage, Testing of Nutrients, Nutrients in some common food items.	Students will be able to explain the significance of fibre and water on the human health.	

	Balanced diet, Deficiency diseases.	Students will be able to identify and describe some common diseases that are caused due to the deficiency of nutrients in our body.	Whole class discussion.
JUNE	<i>No School</i>		
	Ch.3-Fibre to Fibre Clothing material-History Types of cloth material	Students will be able to understand and explain how did people manage when there were no clothes and what are our clothes made up of and their types.	Whole class discussion. Collect cloth samples, observe & draw inferences to distinguish among different types of cloth.
	Manufacture and properties of natural & synthetic fibres	Students will be able to explain some of our clothes are obtained from plants & animalslike cotton, silk and wool while some are made from chemicals like nylon & polyester. They will be able to explain the process involved in the production of cotton,wool and silk.	Students will collect information on locally available plant fibre(coconut, silk, cotton etc..)
	Revision/FA1		

FA 1			
JULY	Ch.4- Sorting Materials into Groups What are things made of? Matter Classification and its advantages	Students will be able to define matter and explain what it is made up of. They will understand the grouping of things with similar properties is called classification.	Whole class discussion. Research on John Dalton and Acharya Kannada.
	Properties of materials States of matter	Sudents will be able to explain common properties like appearance, lustre, texture, solubility, density and tranparency.	Discussion and simple experiments to understand a few of the properties like foating & sinking.
	Ch.5-Separation of Substances Mixtures and pure substances Methods of separation.	Students will be able to differentiate between pure substances and mixtures. They will be able to explain the properties of mixtures. They will be able to explain separation of solids from solids via threshing, winnowing, hand picking and sieving.	Perform activities to separate different solids from each other.
	Methods of separating insoluble solids from liquids. Water, a universal solvent.	Students will be able to explain sedimentation, decantation & filtration amd the application of these methods to obtain drinking water. Students will be able to explain the importance of water as a universal solvent.	Perform activities to separate different liquids and solids from each other.

	<i>(The above is the CONCERT WEEK so chances of spilling to these three days .)</i>		
AUG	Ch.6-Changes Around Us Reversible and irreversible changes Physical & chemical changes	Students will be able to differentiate between the various kinds of changes with the help of various examples from their day to day life.	Activities given in the textbook to classify reversible and irreversible changes.
	Changes when different substances are mixed. Ch.7- Living and Non-Living Characteristics of living things	Students will be able to classify boiling, evaporation, condensation, rusting, melting and burning as physical and chemical changes. Students will be able to differentiate between living and non living things on the basis of the characteristics of the living things like reproduction, response to stimulus, need for food, excretion, respiration.	Whole class discussions based on observations to categorise changes around them. Visit to the laboratory to observe tiny objects under the microscope.
	Ch.8-Getting to know Plants Herbs, Shrubs and Trees Plant systems- The root & stem	All the students will be able explain the structure and fuctions of various parts of the plant.	Experiment to show conduction by stem - Activity to show anchorage by root.

	Leaf Flower & Fruit	Students will be able to explain the structure of the flower and define pollination.	Collect different type of flowers and observe them to understand the structure.
FA 2			
SEPT			
	Revision		
	SA1		
	SA1		
	SA1		

SA 1			
OCT	Ch.10-Living Organisms and Their Surroundings Biotic components & their interactions Adaptations- Types of habitats	Students will be able to classify the biotic components into Producers, Consumers & Decomposers and also explain the interaction between them.	Observe the characteristics of living things Making observations and documenting systematically.
	Ch.9- The Body and Its Movements Structure of the body Skeletal system	Students will be able to define tissue and an organ system. They will be able to explain the structure and functions of the skeletal system.	Observation of nature, model of skeleton, Xrays of chest, arm or leg, jaws..
	Different type of joints Movement in other animals	Students will be able to classify the joints on the basis of the type of movement they allow. Most of the students will be able to explain the movement of animals having skeletons without bones.	
	Ch.11-Measurement and Motion Standard units of measurement Types of motion	Students will be able to explain what is movement and how is it measured. All the students will be able to differentiate between the different types of motion.	Measuring length and breadth of classroom, notebook, desk etc Demonstrate objects having more than one movement. Observe periodic motion of the hands of the clock.
	<i>continuation of the previous chapter</i>		

NOV			
	<i>No School</i>		
	Ch.12- Lights, Shadows and Reflections Light	All the students will be able to explain the importance of light and also classify materials in terms of transparent, opaque and translucent objects.	
FA 3			
DEC	Shadows Eclipses	Most of the students will be able to explain shadows are formed when there is a source of light and an opaque material obstructs it. Students will be able to explain solar and lunar eclipse.	Making a periscope or pin hole camera. Measure shadows of a tree at regular intervals. Observe shadows of various object of different shapes. Observe shadows of same shape from different angles.
	Revision		

	FA3		
	<i>No School</i>		
JAN	Ch. 13- Electricity and Circuits Electric current Electric circuits	Most of the students will be able to explain how current flows in a circuit to make the bulb glow.	Make a model of a simple circuit using bulb and electric wire
	Conductors & insulators Electric cell	Students will be able to explain that all material do not allow current to flow through them.	Experiment to show that some objects(conductors)allow current to flow and others (insulators) do not.
	Ch.14- Fun with Magnets Magnet & its poles	Most of the students will be able to explain what is a magnet and	Activities to- locate poles of a magnet & show that like poles repel and unlike poles attract.
	Earth's magnetism Magnetic field	Most of the students will be able to explain a freely suspended magnet always aligns in a particular direction.	Experiment to show alignment of a freely suspended magnet.

FA 4			
FEB	Ch.15-Water Importance of water to sustain life Water cycle	Students will be able to explain the dependence of living things on water & change of state from one form to the other in water cycle.	Estimation of water used by a family in one day, month and an year.
	Sources of water Conservation of water Ch. 16- Air Around Us Atmosphere	After studying the sources of water all the students will be able to explain the need for conserving water. Students will be able to explain the term atmosphere, and the composition of air.	Group presentation on importance of water. Discussion based on observation and experience.
	Importance of air Ch. 17- Garbage In, Garbage Out Types of wastes Reusing and recycling wastes	Students will be able to explain the oxygen cycle. All the students will be able to differentiate between biodegradable and nonbiodegradable waste and their uses.	Discussion will be held on the role of atmosphere in the ecosystem. Activity to show that materials rot in soil and how this is affected by wrapping waste in plastics.
	<i>continuation of the above mentioned topic- Water.</i>		

MAR			
SA 2			