

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

Month	Lesson / Content / Name of the Book	Expected Learning Objective	Activities/FAs Planned
APRIL	Block 1: Germination of Seed	<ul style="list-style-type: none"> ●Identify the parts of a seed and describe their function. 	<ul style="list-style-type: none"> ●Activity 1: Dissect a seed to identify the presence of cotyledon.
	Block 1: Germination of Seed	<ul style="list-style-type: none"> ●Explain that different types of seed take different time to germinate. ●Explain that new plants can grow without seeds. 	
	Block 2:Growing New Plants	<ul style="list-style-type: none"> ●Explain the various methods of vegetative propogation. 	<ul style="list-style-type: none"> ●Activity 2: Sow seeds of the same type and put in different conditions and observe the difference in growth.
	Block 2:Growing New Plants	<ul style="list-style-type: none"> ●Explain the various methods of vegetative propogation. 	

JUNE		<ul style="list-style-type: none"> ●Sequence the various stages in the cultivation of crops. ●Differentiate between kharif and rabi crop. 	PPT on Stages of farming
		REVISION for FA 1	
		FA 1	
	Block 4:Super Senses	<ul style="list-style-type: none"> ●Explain how the super sense of sight, smell, hearing, touch and taste in animals helps them survive. 	
FA 1			
	Block 4:Super Senses	<ul style="list-style-type: none"> ●Describe the features of animals living in different types of habitats. 	Make a scrap book on super senses of animals
	Block 4:Super Senses	<ul style="list-style-type: none"> ●Describe how body coverings and breathing organs help animals survive in their habitat. 	
	Block 5:Habitat and Adaptation	<ul style="list-style-type: none"> ●Describe how an animal's body is adapted to help it move in habitat. 	

JULY	Block 6:Protecting Animal Habitat	<ul style="list-style-type: none"> ●Explain how human activities, natural disasters and climatic changes lead to destruction of animal habitat. 	<ul style="list-style-type: none"> ●Activity1: To analyse the role of places/ institutions like wildlife sancturaies and PETA for preserving of cruelty to animals. To search for information on various sanctuaries and to make a pamphlet or leaflet.
	Block 6:Protecting Animal Habitat	<ul style="list-style-type: none"> ●Explain that it is importance and measures taken to protect animal habitat. 	
AUG	Block 7:Joints in our Body	<ul style="list-style-type: none"> ●Identify joints in the body and describe their functions. ●Differentiate between movable and immovable joints. 	
	Block 7:Joints in our Body Block 8:Our Nervous System	<ul style="list-style-type: none"> ●Classify movable joints based on how they move. ●Identify disorders of joints and recommended ways to take care of them. ●Identify parts of the human brain and describe their functions. 	
	Block 8:Our Nervous System	<ul style="list-style-type: none"> ●Classify nerves based on their functions in our body. ●Explain how the nervous system controls and coordinates the working of the body. 	<ul style="list-style-type: none"> ●Activity 2: Discuss the role of the brain with children and relate it to Head of the school, teachers etc.

	Block 9:Communicable Diseases	<ul style="list-style-type: none"> •Differentiate between communicable and non-communicable diseases. •Identify ways by which communicable diseases spread and their prevention. 	Make a presentation on different communicable diseases and how can they be prevented.
FA 2			
SEPT	Block 10:Diet and Health	<ul style="list-style-type: none"> •Explain that deficiency or eating too much of any nutrient can be harmful. •Identify the cause, effects and cure of deficiency diseases. 	Make a Diet Chart for 10 year old girl / boy
		REVISION for SA 1	
		SA 1 Exam	
		SA 1 Exam	
	Block 11:Preserving Food	<ul style="list-style-type: none"> •Identify symptoms of spoiled food and the need and common methods to preserve food. 	<ul style="list-style-type: none"> •Activity1: Page 74 of the Xseed content book- Make jam or pickle

SA 1			
OCT	Block 12: Properties of Water	<ul style="list-style-type: none"> •Identify properties of water and explain how many daily activities make use of these properties. •Explain the method of purifying water, to make it safe for drinking. 	<ul style="list-style-type: none"> •Activity 1: Observe and reason the floating and sinking by putting a small stone, iron nail and a piece of thermocol in water.
	Block 13: Rivers-Major Source of Water	<ul style="list-style-type: none"> •Explain how the invention of canal irrigation works and the advantages and disadvantages of innovations like building dams. 	<ul style="list-style-type: none"> •Activity 2: Page 86 and page 92 of the Xseed content book.
	Block 14: Water-A Natural Resource	<ul style="list-style-type: none"> •Explain how the invention of canal irrigation works and the advantages and disadvantages of innovations like building dams. •Identify sources of water and the cause and effect of water pollution. •Recommend ways of preventing water pollution. 	<ul style="list-style-type: none"> •Activity 3: To write down measures that are followed in your home to safeguard against mosquitoes and to write down your observation in your notebook
	Block 15: Properties of Air	<ul style="list-style-type: none"> •Understand that air exerts pressure and explain the role of air pressure in some daily life activities. 	<ul style="list-style-type: none"> •Activity 1 : To perform an experiment to conclude that air has weight and exerts pressure
	Block 15: Properties of Air	<ul style="list-style-type: none"> •Understand that air exerts pressure and explain the role of air pressure in some daily life activities. 	

NOV	Block 16:Our Atmosphere	<ul style="list-style-type: none"> ●Understand that air exerts pressure and explain the role of air pressure in some daily life activities. ●Define atmosphere as the blanket of the gases that surround the Earth. ●Describe the importance of the ozone layer and why the average temperature of the Earth is rising. ●Define motion and force. ●Predict the motion of an object on which two opposing forces are acting. 	<ul style="list-style-type: none"> ●Activities given in Xseed Textbook.
FA 3			
DEC	Block 17:Motion, Force and Work	<ul style="list-style-type: none"> ●Define motion and force. ●Predict the motion of an object on which two opposing forces are acting. 	<ul style="list-style-type: none"> ●Activities given in Xseed Textbook.
		REVISION for FA 3	
		FA 3	
		VACATIONS	

JAN	Block 18:Friction	<ul style="list-style-type: none"> ●Identify the role of friction in day to day activities. ●Justify that friction is both good and bad for us. 	<ul style="list-style-type: none"> ●Activity 1: Given on page 116 of the Xseed content book. ●Activity 2:
	Block 19:Simple Machines	<ul style="list-style-type: none"> ●Identify the importance of machine as a device that makes the work easier by changing the direction of force. ●Conclude after experimentation, that lever makes work easier. ●Classification of Levers. 	<ul style="list-style-type: none"> ●Activity 2: Experiment to conclude Simple machines (inclined plane, levers, screws, wedge) make our work easy.
	Block 20:Saving Energy	<ul style="list-style-type: none"> ●Identify the various sources of energy. 	
	Block 20:Saving Energy	<ul style="list-style-type: none"> ●Explain the advantages and disadvantages of using renewable and non-renewable sources of energy. 	Research on non conventional sources of energy
FA 4			
FEB	Block 21:Matter and its Properties	<ul style="list-style-type: none"> ●Differentiate between solid, liquid and gases and relate their properties on how particles are arranged. 	
	Block 22:Physical Changes	<ul style="list-style-type: none"> ●Define physical changes. ●Identify processes involved in change of state of matter. 	

	Block 23:Rocks and Minerals	●Identify and compare the three types of rocks based on how they are formed.	Collect rocks from your surrounding and try to find group them in different
MARCH	Block 24; Space and Research	Identify the features of moon. Narrate the stories of human's first expedition to the moon. Various uses of artificial satellites.	
	Block 24; Space and Research Block 25: Natural Calamities	Narrate the stories of human's first expedition to the space Describe natural diasater in your words.	Make a presentation on Rakesh Sharma's space expedition.
	Block 25: Natural Calamities	Describe cause and effects of volcanic eruptions. Describe cause and effects of cyclone. Predicting and preparedness for natural disaster.	Make a report on Nepal's earthquake and some measure that needs to be taken at the time of earthquack.
		REVISION SA 2	
		SA 2	
SA 2			