

The Orchid School
Baner
Syllabus Overview 2015- 2016
Std VIII
Subject : SCIENCE

Month	Lesson / Content / Name of the Book	Expected Learning Objective	Activities/FAs Planned
MARCH -APRIL	Crop Production and Management/Different types of crops.	To know different types of crops like Kharif and Rabi crops	Write examples of these crops
	Crop Production and Management/Basic practices of crop production.	To understand the different activities undertaken by farmers over a period of time	To sow seeds at different conditions and observe its growth
	Syntyhetic Fibres and Plastics/Difference between Synthetic and Natural Fibres/Types of Synthetic Fibres	Students will be able to explain the advantages and disadvantages of using Synthetic fibres	To collect different types of Fibres, gather information about them and present in tabular form
	Plastics as material of choice	To Know the characteristic properties of Plastics and also to learn Biodegradable and Non biodegradable materials	Lab activity To compare the strength of different Fibres.
	Force and Pressure/Effect of Force on object	Students will be able to explain the changes made by force on an object	Lab Activity Study of spring balance

JUNE	Force and Pressure/Pressure exerted by Liquid and Gases	Students will be able to explain that Liquids and Gases exert pressure on the walls of the container	
	Micro organisms:Friend and Foe	Students will be able to explain different types of Micro organisms	Slides of different Microbes shown to students
	Revision	Recap and interpret the portion taught	
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FA 1			
JULY	Harmful Microbes	Students can differentiate between harmful and helpful Microbes	
	Metals and Non-Metals/ physical properties	Students will be able to explain the difference between Metals and Non Metals	To collect different types of metals and write the observation in tabular form.
	Metals and Non-Metals/ Chemical properties	Students will be able to explain different types of reactions	To observe the reactivity and displacement reactions of some metals.

	Conservation of Plants and Animals	Students will learn the causes and consequences of Deforestation	To collect pictures of wildlife sancturies and National parks
	Conservation of Plants and animals/Biosphere reserve	Students will be able to explain the importance of wildlife sancturies,National parks etc	To find the number of bio-sphere reserves of India. FA Plan
AUG	Sound	Students understand that sound is produced by vibrating body	Tabulate some musical instruments and their Vibrating parts
	Sound needs medium for propagation	Students will be able to explain that sound can pass through solids,Liquids and Gases	
	Cell-Structure and Functions	Students will be able to understand and explain different parts of cell	Slides of different cells shown
	Cell-Structure and Functions	Students can distinguish between animal cell and plant cell	
FA 2			
	Combustion and Flame/Types of combustion	Students will be able to explain how to control fire,what are inflammable substances etc	

SEPT	Structure of a flame	Students will be able to explain the meaning of fuel efficiency, calorific value and Global warming	To observe different zones of a flame.
	Reaching The Age of Adolescence	Students will be able to explain that Humans become capable of reproduction after puberty sets in.	To prepare table of estimated age.
	Reaching The Age of Adolescence	Students understand that the onset of puberty and maturity of reproductive parts is controlled by hormones.	
	Revision	Recap of SA! Portion	
SA 1			
OCT	Chemical Effects of current	Students will be able to explain that Acids bases and salts solutions are generally good conductors of electricity.	To observe eletrolysis. - To observe eletroplating.
	Chemical Effects of current/ Electroplating	The passage of electric current through a conducting liquid causes chemical effects.	To make their own lemon battery.
	Stars and the Solar System	Students will be able to explain that Constellations are a group of stars that appear to form recognisable shapes.	Solar System and Stars to be taken in a dramatic manner

	Stars and the Solar System	Students will be able to explain about 8 planets, a host of asteroids, comets, meteors..... -	
NOV	Light	Students will be able to explain that light is reflected from all surfaces.	Dispersion to be observed
	Light	Students will understand that Image formed in a plane mirror is laterally inverted.	Laws of reflection to be verified.
	Revision	Recap and interpret the portion taught	

FA 3

	Revision	Recap and interpret the portion taught	
DEC	Friction	Students will be able to explain that friction opposes the relative motion between two surfaces in contact.	To observe friction between different surfaces.
	Friction	Students understand that Friction is a necessary evil.	

	Friction	Students will be able to explain the different methods of increasing and decreasing Friction	
JAN	Reproduction in Animals	Students will be able to differentiate between sexual reproduction and Asexual reproduction.	
	Reproduction in Animals	Students will be able to differentiate between Viviparous and oviparous Animals -	
	Some Natural Phenomena	Students understand that charging can be done by- --- -friction, conduction, induction.	
	Some Natural Phenomena	Lightning conductors can protect buildings from lightning.	
FA 4			
FFR	Coal and Petroleum	Students will be able to understand that Coal, petroleum and natural gas are fossil fuels.	Charts on coal and petroleum
	Coal and Petroleum	Students understand that Coal and petroleum resources are limited. We should use them judiciously.	

FEB	Coal and Petroleum	Students learn how Petroleum is refined	
	Pollution of Air and Water	Students will be able to explain that Air pollution is contamination of air by impurities	Take PUC Test of any vehicle.
MAR	Pollution of Air and Water	Students understand that Reduce, recycle and recycle should be our mantra!	Clean-up drive at a river side.
	Pollution of Air and Water	Students will be able to explain how water is purified	
	Revision	Revise SA2 Portion	
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	SA2 Exam		
	SA 2		