VIDYA PRATISHTHAN'S NEW BAL VIKAS MANDIR, PIMPLI BARAMATI

Annual Curriculum Plan of Science (2023-24)

Std: VII A, B & C

April	Ch. No.1 Nutrition in plants	i. Students will be able to understand the different modesof nutrition like Autotrophic, Heterotrophic and	Lab activity: Students will perform a	
	Nutrition in plants	Saprophytic etc. ii. Students will be able to know the process of Photosynthesis and the synthesis of plant food other thanthe Carbohydrates. iii. Students will be able to know how nutrients are replenished in the soil.	experiment to study structure of stomata under the microscope	
June	Ch. No. 4.	i. Students will be able to know the	Lab activity: Students will perform an	
	Heat	measurement of Temperature with the help of a thermometer.	experiment to study conduction and convection of heat.	
		ii. Students will be able to learn how to readthe thermometer.		
		iii. Students will understand the concept of		
		Transferof heat- Conduction, Convection, and radiation.		
		iv. Students will be able to understand the reason		
		behind different kinds of clothes worn in the summer and winter seasons.		
		First Unit Test		
July	Ch.No. 2	i. Students will learn the different organs involved in	Students will make a model of human	
	Nutrition in Animals	the human digestive system and the process of digestion.	digestive system.	
		ii. Students will be able to understand the process of digestion in Ruminants and feeding and digestion in		

August	Ch. No. 13 Motion and Time Ch. No. 12 Reproduction in Plants	I. Students will be able to understand the concept of speed. ii. Students will be able to calculate the speed of differentobjects. iii. Students will learn how to measure the time. ii. Students will be able to draw distance-time graphs. i. Students will be able to understand the different	Lab activity:. To find out the time period of an oscillation. Student will make sand clock device with the help of plastic bottles and soil. Lab activity: Students will observe spore formation in Fungus. Graphical organization of types	
		modes of reproduction. ii. Students will be able to identify the reproductive parts of a flower and their pollination. iii. Students will be able to learn how dispersal of seeds		
		takes place and it's importance. First Terminal Examination	of seed dispersal.	
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October	Ch. No. 5 Acid, Bases and Salts	 i. Students will be able to understand the concepts of Acids, Bases and Salts. ii. Students will be able to understand the natural indicators. iii. Students will be able to understand the neutralization process. Students will learn about the neutralization in day-to-day life such as Indigestion, ant bite, soil treatment, factory wastes etc. 	Students will make Greeting cards with the help of natural colours such as Turmeric powder, extract of Beetroot. Lab activity: Students will find the chemical nature of some solutions using litmus paper.	
November	Ch. No. 6 Physical and Chemical changes	i. Students will be able to understand the concept of Physical and Chemical changes. ii. Students will be able to understand the process and preventive measures to prevent of rusting of iron. iii. Students will be able to understand the process of crystallization.	Lab activity: Reaction of Oxygen with Magnesium to form Magnesium oxide. Reaction of Copper Sulpate and Iron nails.	
	Ch. No. 10 Respiration in Organisms	i. Students will be able to understand the process of breathing and respiratory system.ii. Students will understand the breathing in other organisms like cockroach, fish and plants.	Make a model of Respiratory system model.	
		Second unit test		

December	Ch. No. 18	i Students will be able to understand sewage and the	Discussion on E-waste, their effects on		
	Waste Water Story	treatment of polluted water.	environment and preventive		
	(Internal Assessment)	ii Students will be able to know the working of	measures to reduce its use.		
		waste water treatment plant.			
		iii Students will be able to know about the diseases			
		caused due to poor sanitation.			
	Ch. No. 11	i.Students will be able to learn the structure of the	Prepare an emergency card with your		
	Transportation in	Human Heart and Circulatory system.	name address phone number and blood		
	plants and	i. Students will be able to understand the excretory	group		
	Animals.	system of human.			
		i. Students will be able to explain the transportation			
		through vascular tissue in plants and transpiration			
		process.			
	Ch. No. 14	i. Students will be able to know electric	Students will study domestic electric bill		
January	Electric Current and its	components and their symbols.	and will paste in notebook.		
	Effects	ii. Students will be able to understand the			
		heatingeffect and magnetic effect of electric	Lab activity:		
		current.	To make an electromagnet		
		Iii Students will be able to explain the working of the			
		electric bell.			
February	Ch. No. 15	i. Students will be able to understand the	Students will perform an Activity to		
	Light	conceptof reflection of light.	observe the characteristics of animage		
		ii. Students will observe the types of images formed	formed by a concave mirror when an		
		by aplane, concave and convex mirror.	object is placed at different distances from		
		Students will observe the types of images formed by a	it. (Textbook page no.182).		
		concave and convex lens.			