

Academic Heights Public School

Jungle Dhusar, Gorakhpur

Session 2017-18

Syllabus of Class - VIII, Subject - Biology

Month	W. Days	Topics/Chapter	Activity
April	22	Crop Production and Management	
		Agricultural practices, crop seasons.	
		Basic practices of crop production.	
		Preparation of soil.	
		Sowing.	
		Adding manures and fertilizers, irrigation.	
		Agricultural implements.	
		Inclusive: Geog- Rabi and Kharif crops, climatic conditions	
		Crop Production (Contd...)	To demonstrate that damaged seeds are lighter than healthy seeds.
		Protection from weeds, harvesting, storage.	
		Increasing crop yield.	
		Food from animal sources.	Field trip: Visit to school garden.
		Notes: More examples of kharif & Rabi crops.	Field trip: Visit to dairy farm.
May +June	17 +9	Microorganisms Friend & Foe	
		Microorganisms.	To study microorganisms present in pond water.
		Where do microorganisms live?	
		Microorganisms and us.	(plant specimens to be shown.)
		Friendly Microorganisms.	
		Microorganisms: Friend & Foe (Contd.)	
		Friendly microorganisms.	
		Harmful microorganisms.	
		Disease causing microorganisms in humans, animals & plants.	
		Food poisoning.	
		Food Preservation.	
		Nitrogen fixation and Nitrogen cycle	
		Inclusive teaching: To discuss the role of preservatives & the kind of reaction involved with food stuff.	
		Notes: labelling for Fig. 2.2, 2.3, 2.4, 2.5, 2.7 and 2.9	
		Definition of Antibiotics, antibodies carriers, preservatives.	
Periodic Test - 1			
July	26	Conservation of plant and Animals	
		Deforestation and its cause	Make a list of deforestation
		Consequences of deforestation	Make a list which show harm of animals due to deforestation
		Conservation of forest and wild life	
		Century, National park, biosphere reserve	Make a list of flora and funa of your
		flora and funa, red detabook, migration etc.	
August	24	Cell Structure and Function	
		Discovery of the cell, definition of cell.	To study unicellular organisms from permanent slide
		Instruments for studying cells.	
		Organisms show variety in cell number, shape and size	(Amoeba, Paramecium)

		Cell structure and function, tissues.	
		Parts of cell - cell membrane, cell wall, nucleus, cell organelles in plant and animal cell.	To study plant cell from onion peel.
		Differences between a plant cell and an animal cell.	
		Prokaryotic and Eukaryotic cells.	
		Cell division and growth.	
		Inclusive Teaching: Physics: to discuss the concept of magnification with reference to microscope.	
		Notes: Diagram of plant cell & animal cell.	
		Diagram of Prokaryotic & Eukaryotic cell.	
Sept.		Revision	
Haly Yearly			
Oct. + Nov	18 + 25	Reproduction in Animals	
		Modes of reproduction	Visit of a pond in rainy season to see
		Male and Female reproductive organs	the clusters of frog's eggs floating
		Fertilization	in water.
		Test tube babies	Try to collect egg of frog, lizard,
		Internal and External Fertilization	butterfly hen, crow or any other birds.
		Development of embryo, viviparous and obiparous	
		Binary fission, metamorphosis	
		Budding	
Periodic Test - 2			
Dec	23	Reaching the age of Adolescence	
		Puberty	Make a chart of height according to age.
		Change at puberty	
		Change in body shape, voice change, development of glands, development of sex organs, secondary sexual character	Draw a graph which show percentage of height with age.
		role of hormones, sex determination, reproductive health	Make a note on iodised salt.
Jan.	24	Pollution of Air and Water	
		Air Pollution	Write a note on air pollution due to automobiles
		How does air polluted	Make a table which show sources of pollution
		Green house Effects	
		Global Warming	Collect the water from difference sources and compare on the basis of
		Water Pollution	there smell and colour
		Soil Pollution	
Feb.	21	Revision	
Annual Exam			