

Month	Topic	Sub-topic	Objectives	Assignments	Remarks
1. April	Nutrition in Plants	<ul style="list-style-type: none"> - mode of nutrition in plants. - photosynthesis - Food - making process in plants - other modes of Nutrition in plants - saprotrophs. 	<ul style="list-style-type: none"> - explain nutrition - the difference of mode of nutrition - photosynthesis process saprotrophic nutrition & saprotrophs. 	<ul style="list-style-type: none"> - explain parasite & host. 	
2. June	Nutrition in Animals.	<ul style="list-style-type: none"> - different way of taking food - Digestion in humans - digestive system. - grass eating animals. 	<ul style="list-style-type: none"> - The different ways of taking food. - understanding the human digestive system. - digestive systems of ruminants - digestion in Ameeba. 	<ul style="list-style-type: none"> - To show experimentally saliva breaks down to sugars. 	
3. July	heat	<ul style="list-style-type: none"> hot and cold - Thermometer - max. & mini thermometer - conduction, convection - Transfer of heat 	<ul style="list-style-type: none"> difference and similarities. Clinical & laboratory thermometers. 	<ul style="list-style-type: none"> - To show experimentally flow of heat & thermometers. 	PA-1
4. July	Acid, Base salts	<ul style="list-style-type: none"> - Acid, Base - salt - indicators - Neutralisation - how to neutralise substances. 	<ul style="list-style-type: none"> knowing acid and Bases indicator by using blue and red litmus paper. - Neutralisation in day-to-life. 	<ul style="list-style-type: none"> - To show experimentally acid & base reaction by using red & blue litmus. 	

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August	physical & chemical changes.	<ul style="list-style-type: none"> - physical change - chemical change - Rusting of iron. 	<ul style="list-style-type: none"> - physical change and chemical change. - drawing Rusting of iron - crystallisation 	<ul style="list-style-type: none"> - To show experimentally change in colour of $CuSO_4$ solution due to reaction with iron setup to gas through lime water. 	
September	Motion & time	<ul style="list-style-type: none"> - slower fast - measurement of time - speed - time - Measuring speed - dist./time graph. 	<ul style="list-style-type: none"> - Numericals to solve. - Time and distance graph. 	<ul style="list-style-type: none"> - To show experimentally different positions of an oscillatory simple pendulum. 	
October	Respiration in organisms.	<ul style="list-style-type: none"> - why do we respire. - respiratory system. - Breathing in fish - diaphragm. 	<ul style="list-style-type: none"> - Respiration - aerobic - anaerobic - Biological process. 	<ul style="list-style-type: none"> - To show experimentally breathing by working model. 	SA-2
Nov.	transportation in plants and animals.	<ul style="list-style-type: none"> - Circulatory system. - excretion of substances - transpiration 	<ul style="list-style-type: none"> - circulatory system in detail - dia. of heart - To know the significance transportation in plant: human heart, blood vessels, heart 	<ul style="list-style-type: none"> - To show experimentally pumping of heart. 	

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9.	December	Reproduction in plants.	<ul style="list-style-type: none"> - different modes of Reproduction - Budding in yeast - fragmentation, spore formation - Sexual Reproduction. - pollination - fertilisation 	<ul style="list-style-type: none"> - To explain asexual and sexual mode of Reproduction - seed dispersal - types of pollination. 	<ul style="list-style-type: none"> - To show experimentally fragmentation in aloe - sexual Reproduction in hibiscus flower. 	
10.	January	Light	<ul style="list-style-type: none"> - Introduction - light travels along st. line - Reflection of light - spherical mirrors. - sunlight - white or coloured. 	<ul style="list-style-type: none"> - To show light convex and concave examples. - plane mirror - Reflection 	<ul style="list-style-type: none"> - To show experimentally the convex and concave mirror by using spoon. 	PA-2
11.	January	electric current and its effects.	<ul style="list-style-type: none"> - symbol and circuit - heating effect - electric bell - cell - battery. 	<ul style="list-style-type: none"> - To show circuit cell and bulb - glow - connections - switch - heating effect with diagram. 	<ul style="list-style-type: none"> - To show experimentally electric circuit - by glowing bulb - using wire, bulbs, battery, switch 	

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12.	february	<ul style="list-style-type: none"> - Forest: our lifeline. - Interrelation of plant, soil and decomposers in a forest - Rainwater drips from trees and seeps into ground. 	Visit To forest Canopy, deforestation, seed disposal Regeneration	<ul style="list-style-type: none"> - To aware the forest with - - dynamic living entity - Balance of O₂ and CO₂ 	To show or visit forests.	
13.	february	Waste water story:	<ul style="list-style-type: none"> - water-our lifeline - sewage - water fishers - An eventful Tournary - sanitation and disease - sewage disposal 	<ul style="list-style-type: none"> - To aware about water is life - water harvesting process - sewage disposal at time to definite place 	To visit watery areas.	SA-2

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