Subject:- Science (10th)

Month	W.D.	Chapter	Lab Act.	Assignment
April	22	Life Process	To prepare a temporary mount of a leaf peel to show stomata. (Exp. No. 8)	Work sheet Based on nutrition & respiration
		Chemical reaction and equation	To perform and observe the following reactions and classify them into: (i) Combination (ii) Decomposition (iii) Displacement (iv) Double displacement reaction a) Action of water on quick lime b) Action of heat on ferrous sulphate crystals c) Iron nails kept in copper sulphate solution d) Reaction between sodium sulphate and barium chloride solutions (Exp. No. 3)	Work sheet Based on chemical equations & their types
			To find the pH of the following samples by using pH paper/universal indicator: a) Dilute Hydrochloric Acid b) Dilute NaOH solution c) Dilute Ethanoic Acid solution d) Lemon juice e) Water f) Dilute Sodium Bicarbonate solution (Exp. No. 1)	Work sheet Based on chemical properties of acids & bases
		Light (Reflection and Refraction)	To determine the focal length of: i) Concave mirror ii) Convex lens by obtaining the image of a distant object.	Work sheet based on numerical & ray diagrams
			To trace the path of a ray of light passing through a rectangular glass slab for different Angles of incidence. Measure the angle of incidence, angle of refraction, angle of Emergence and interpret the result.	Work sheet Based on numerical & ray diagrams
May	24	Life Process	To show experimentally that carbon dioxide is given out during respiration. (Exp. No. 10)	Work sheet Based on transportation & excretion of animals
		Acids, Bases & Salts	To study the properties of acids and bases (HCl & NaOH) by their reaction with: a) Litmus solution (Blue/Red) b) Zinc metal c) Solid sodium carbonate (Exp. No. 2)	Work sheet Based on pH & chemical properties of salts

	UNIT TEST -1			
July	24	How do organisms reproduce	To study (a) binary fission in *Amoeba*, and (b) budding in yeast with the help of prepared slides. To identify the different parts of an embryo of a dicot seed (Pea, gram or red kidney bean).	Work sheet Based on various modes of asexual reproduction
		Human eye & colorful world	To trace the path of the rays of light through a glass prism. To find the image distance for varying object distances in case of a convex lens and draw corresponding ray diagrams to show the nature of image formed	Work sheet based on eye defects & their correction
	UNIT TEST - II			
August	22	Metals & Non Metals	To observe the action of Zn, Fe, Cu and Al metals on the following salt solutions: a) ZnSO4 (aq) b) FeSO4 (aq) c) CuSO4 (aq) d) Al2 (SO4)3 (aq) ii) Arrange Zn, Fe, Cu and Al (metals) in the decreasing order of reactivity based on the Above result. (Exp. No. 4) Extraction of metals	Work sheet based on chemical properties of metals & non metals Work sheet Based on displacement reaction based on reactivity series Worksheet
Sept.		Syllabus of Term 1 – **Chemical reactions and equations ,Acid, Bases & Salts, Life processes, Light, Human Eye, Metals and non metals, Our environment, How do organism reproduce (half)**		
Oct.	19	Control & Coordination	To study the effect of various tropic & nastic movements on different plants	Work sheet Based on photo hormones & their role in tropic & nastic movements Work sheet based on different animal hormones

		Carbon & its compounds	To study the following properties of acetic acid (ethanoic acid: i) odour ii) solubility in water iii) effect on litmus iv) reaction with sodium bicarbonate To study saponification reaction for preparation of soap. To study the comparative cleaning capacity of a sample of soap in soft and hard water.	Work sheet Based on isomers & structures of organic compounds Work sheet based on chemical properties of organic compounds
		Electricity	To study the dependence of potential difference (V) across a resistor on the current (I) Passing through it and determine its resistance. Also plot a graph between V and I. (Exp. No. 5) To determine the equivalent resistance of two resistors when connected in series. (Exp. No. 6) To determine the equivalent resistance of two resistors when connected in parallel. (Exp. No. 7)	Work sheet Based on consumption of electric energy & numerical based on electric power & energy Work sheet Based on numerical of Ohm's law
Nov.	22	Heredity		Work sheet Base on monohybrid & dihybrid cross
		Magnetic effects of current	To study the magnetic field lines by a compass needle	Work sheet Based on Fleming's left & right hand rule
Dec.	24	Our Environment	Visit to green house – activities combined with English and geography.	Work sheet
Pre Board – Complete Syllabus(1-16)				
Jan & Feb. – Revision of Full Syllabus				