

**SCIENCE- X**  
**I- TERM ( APRIL'15 TO SEPTEMBER'15 )**

MONTH	TOPIC	ACTIVITY	CAL/TAL	DAY	
April	CHEMICAL REACTIONS & EQUATIONS	PRACTICAL No. 1 : To perform and observe the following reactions and classify them into : i. Combination reaction ii. Decomposition reaction iii. Displacement reaction iv. Double displacement reaction 1) Action of water on quick lime 2) Action of heat on ferrous sulphate crystals 3) Iron nails kept in copper sulphate solution 4) Reaction between sodium sulphate & barium chloride solutions.	01	22 days	
	LIFE PROCESS	PRACTICAL No. 2 : To prepare a temporary mount of a leaf peel to show stomata.	01		
May & June	ELECTRICITY	PRACTICAL No. 3 : 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.	01	8 days	
July	ACIDS BASES AND SALTS	PRACTICAL No. 4 : To determine the equivalent resistance of two resistors when connected in series.	01		
		PRACTICAL No. 5 : To determine the equivalent resistance of two resistors when connected in parallel.	01		
	SOURCES OF ENERGY	PRACTICAL No. 6 : To find the pH of the following samples by using pH paper/universal indicator. <i>a. Dilute Hydrochloric acid    b. Dilute NaOH solution    c. Dilute ethanoic acid solution</i> <i>d. Lemon juice    e. Water    f. Dilute sodium bicarbonate solution</i>			23 days
	CONTROL AND COORDINATION	PRACTICAL No. 7 : To show experimentally that light is necessary for photosynthesis.	01		
August	METALS AND NON METAL	PRACTICAL No. 8 : To show experimentally that carbon dioxide is given out during respiration.		23 days	
	MAGNETIC EFFECTS OF CURRENT	PRACTICAL No. 9 : To study the properties of acids and bases HCl & NaOH by their reaction with <i>a. Litmus solution (Blue /Red)    b. Zinc metal    c. Solid sodium carbonate</i> PRACTICAL No. 10 : 1. a) To observe the action of Zn, Fe, Cu and Al metals on the following salt solutions. <i>i) ZnSO<sub>4</sub> (aq.) , ii) FeSO<sub>4</sub> (aq.) , iii) CuSO<sub>4</sub> (aq.)    iv) Al<sub>2</sub>(SO)<sub>3</sub> (aq.)</i> b) Arrange Zn, Fe, Cu and Al metals in the decreasing order of reactivity based on the above result.			
Sept.	REVISION	SA I (Pen Paper Test)FA I : 10, FA II - 10, SA I : 30    TOTAL : 50		12	

## II- TERM ( OCTOBER'15 TO MARCH'16 )

MONTH	TOPIC	ACTIVITY	CAL/TAL	DAY
Oct.	CARBON AND ITS COMPOUNDS	PRACTICAL No. 1 : To study saponification reaction for the preparation of soap.	01	16 days
	HOW DO ORGANISMS REPRODUCE	PRACTICAL No. 2 : To compute the foaming capacity of different samples of soap.	01	
Nov.	STRUCTURE OF THE ATOM	PRACTICAL No. 3 : To draw ray diagram to show the path of ray of light falling on a convex lens and thereby express the nature of image.	01	21 days
	LIGHT - REFLECTION AND REFRACTION	PRACTICAL No. 4 : To study the refraction of light falling on glass prism.	01	
Dec.	HUMAN EYE AND COLORFUL WORLD	PRACTICAL No. 5. To study the following properties of acetic acid (ethanoic acid): <i>i) odour ii) solubility in water iii) effect on litmus iv) reaction with sodium bicarbonate</i>	01	18 days
	OUR ENVIRONMENT	PRACTICAL NO.6 : To determine the focal length of (i) Concave mirror, (ii) Convex lens by obtaining the image of a distant object.	01	
Jan.	PERIODIC CLASSIFICATION OF ELEMENTS	PRACTICAL No. 7 : 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.	01	15 days
	HEREDITY AND EVOLUTION	PRACTICAL No. 8 : To study (a) binary fission in Amoeba & (b) budding in yeast with the help of prepared slides.	01	
3Feb.	MANAGEMENT OF NATURAL RESOURCES	PRACTICAL No. 9 : To study homology & analogy with the help of preserved/available samples of either animals or plants. PRACTICAL No. 10 : To identify the different parts of an embryo of a dicot seed (pea, gram or red kidney bean) PRACTICAL EXAM	01	22 days
March	Revision	SA II (Pen Paper Test) FA III : 10, FA IV - 10, SA II : 30		

**Note :** The practical of each semester may be organised as per the convenience. But all the practical are to be performed by the student

**NOTE : FA II / FA IV PRACTICAL EXAM IS COMPULSORY**

SL. NO.	ACTIVITY	MARKS FOR FA II	SL. NO.	ACTIVITY	MARKS FOR FA II
1.	PRACTICAL EXAM ( Phy + Chem + Bio )	10 + 10 + 10	5.	MODEL	10
2.	VIVA ON PRACTICAL	10	6.	PPT/THINK QUEST ACTIVITY	10
3.	PRACTICAL COPY	10	7.	CW/HW/ASSIGNMENT	20
4.	INVESTIGORY PROJECT	10			

