

SYLLABUS FOR THE SESSION 2023-24

CLASS - IX

SUBJECT - Science

MONTH	TEXT BOOK -	DIGITAL RESOURCES	SUBJECT ENRICHMENT ACTIVITIES
April	CH-1 (CHEMICAL REACTION AND EQUATIONS) CH-10 (LIGHT- REFLECTION AND REFRACTION)	Explanation from E- Library	1. PERFORMING AND OBSERVING THE FOLLOWING REACTION AND CLASSIFY THEM INTO: (a) COMBINATION REACTION (b) DECOMPOSITION REACTION (c) DISPLACEMENT REACTION (D) DOUBLE DISPLACEMENT REACTION. 2. DETERMINATION OF FOCAL LENGTH: (a) CONCAVE MIRROR (b) CONVEX LENS 3. TRACING THE PATH OF 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.
May	CH-6(LIFE PROCESS) CH-15 (OUR ENVIRONMENT)	Animated videos	4. PREPARING A TEMPORARY MOUNT OF A LEAF PEEL TO SHOW STOMATA. 5. EXPERIMENTALLY SHOW THAT CARBON DIOXIDE IS GIVEN OUT DURING RESPIRATION.
July	CH-2 (ACID, BASE AND SALT) CH-11 (HUMAN EYE AND COLOURFUL WORLD)	Mind map and online quiz from back exercise	6. FINDING THE PH OF FOLLOWING SAMPLES BY USING PH PAPER AND UNIVERSAL INDICATOR: (a) DILUTE HYDROCHLORIC ACID, (b) DILUTE NAOH SOLUTION (c) DILUTE ETHANOIC ACID SOLUTION (d) LEMON JUICE (e) WATER (f) DILUTE HYDROGEN CARBONATE SOLUTION 7. TRACING THE PATH OF THE RAYS OF LIGHT THROUGH A GLASS PRISM
August	CH- 7 (CONTROL AND COORDINATION IN PLANTS AND ANIMALS) CH-3 (METALS AND NON METALS)	Demonstration by video	8. OBSERVING THE ACTION OF Zn, Fe, Cu, AL METALS ON THE FOLLOWING SALT SOLUTIONS: $ZnSO_4$, $FeSO_4$, $CuSO_4$, $Al_2(SO_4)_3$ ARRANGING Zn, Fe, Cu, Al IN DECREASING ORDER OF REACTIVITY BASED ON THE ABOVE RESULTS

September	CH-12 (ELECTRICITY)		9. STUDYING THE DEPENDENCE OF POTENTIAL DIFFERENCE (V) ACROSS A RESISTOR ON THE CURRENT (I) PASSING THROUGH IT AND DETERMINE ITS RESISTANCE. ALSO PLOTTING A GRAPH BETWEEN V AND I. 10. DETERMINATION OF THE EQUIVALENT RESISTANCE OF TWO RESISTORS WHEN CONNECTED IN SERIES AND PARALLEL.
October	CH-8 (HOW DO WE REPRODUCE) CH-4 (CARBON AND COMPOUNDS)	Flow chart from E-library	STUDYING (A) BINARY FISSION IN AMOEBA, AND (B) BUDDING IN YEAST AND HYDRA WITH THE HELP OF PREPARED SLIDES. 12. IDENTIFICATION OF THE DIFFERENT PARTS OF AN EMBRYO OF A DICOT SEED (PEA, GRAM OR RED KIDNEY BEAN). 13. STUDY OF THE FOLLOWING PROPERTIES OF ACETIC ACID (ETHANOIC ACID): i) ODOUR ii) SOLUBILITY IN WATER iii) EFFECT ON LITMUS iv) REACTION WITH SODIUM HYDROGEN CARBONATE 14. STUDY OF THE COMPARATIVE CLEANING CAPACITY OF A SAMPLE OF SOAP IN SOFT AND HARD WATER.
November	CH-13 (MAGNETIC EFFECT OF ELECTRIC CURRENT) CH-9 HEREDITY	Animated videos	Case study based activities
December	PREBOARD	Online quiz and	
January	PREBOARD	Online quiz and	
	BOARD EXAM		