**NAVY CHILDREN SCHOOL,DELHI**

**UPDATED SPLIT UP BASED SYLLABUS FOR ACADEMIC YEAR 2024-2025 CLASS X**

**SCIENCE**

| **MONTH** | **CHAP. NO** | **CHAPTER NAME** | **SUGGESTED ACTIVITIES** |
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|  |  | **TERM 1** |  |
| **APRIL**  **TO**  **JUNE** | CH-1 | CHEMICAL REACTIONS AND EQUATIONS | * Performing and observing the following reactions and classifying them into:   A. Combination reaction  B. Decomposition reaction  C. Displacement reaction  D. Double displacement reaction:  (i) Action of water on quicklime (ii)Action of heat on ferrous sulphate crystals   1. Iron nails kept in copper sulphate solution 2. Reaction between sodium sulphate and barium chloride solutions. |
|  | CH-6 | LIFE PROCESSES (Nutrition and respiration) | * Preparing a temporary mount of leaf peel to show stomata**.** |
|  |  |  | * Experimentally show that carbon dioxide is given out during respiration. |
|  | CH-10 | LIGHT REFLECTION AND REFRACTION |  |
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| JULY | CH-5  CH-6  CH-2  CH-9  CH-10 | LIFE PROCESSES (CONTD.)  CONTROL & COORDINATION  ACIDS BASES AND SALTS  LIGHT REFLECTION AND REFRACTION (CONTD.)  HUMAN EYE AND THE COLOURFUL WORLD (FULL CHAPTER) | * Conduct an experiment to show photo-tropism , geotropism * Studying the properties of acids bases and salts**.** * . Finding the pH of different samples by using pH paper/universal indicator. :   1. Dilute Hydrochloric Acid   2. Dilute NaOH solution   3. Dilute Ethanoic Acid   4. Lemon juice   5. Water   (vi)Dilute Hydrogen Carbonate   * Focal length of concave mirror and convex lens * Refraction of light through glass slab**.** * Image formation in convex lens**.** * Tracing the path of the rays of light through a glass prism |
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| AUGUST | CH- 3  CH-6  CH-13  CH-11 | METALS AND NON- METALS  CONTROL AND COORDINATION (CONTD.)  OUR ENVIRONMENT  ELECTRICITY | * Observing the action of Zn, Fe, Cu and Al metals on the following salt solutions: (i)ZnSO4(aq)   (ii) FeSO4(aq) (iii)CuSO4(aq) (iv)Al2 (SO4)3(aq)   * Make a chart of energy transfer in various tropic level. * Verification of Ohm’s law |
| SEPTEMBER | CH-4  CH-7  CH-11 | CARBON AND ITS COMPOUNDS  HOW DO ORGANISMS REPRODUCE?  ELECTRICITY(CONTD.) | * Study of the comparative cleaning capacity of a sample of soap in soft and hard water * Studying binary fission in amoeba, and budding in yeast and hydra with the help of prepared slides |
| OCTOBER  **Syllabus completion by last week of October** | CH-4  CH-7  CH-8  CH-12 | CARBON AND ITS COMPOUNDS  HOW DO ORGANISMS REPRODUCE?  HEREDITY  MAGNETIC EFFECTS OF ELECTRIC CURRENT | * Studying the properties of Acetic acid * Identification of different parts of an embryo of a dicot seed (Pea, gram or red kidney bean) * Combination of resistors |
| NOVEMBER |  | * Revision for Pre board exam   **First Preboard** |  |
| DECEMBER |  | **Second Preboard** |  |
| JANUARY |  | Revision for board exam |  |
| FEBRUARY |  | (REVISION FOR  BOARD EXAMINATION) | **ANNUAL EXAMINATION** |
| MARCH |  | BOARD EXAMINATION 24-25 |