Love Dale Central School

Curriculum 2022-23

Sub: Science (CHEMISTRY)

Class : X

Month	Book	Chapter/Lesson title	Topics	Activity	Learning Outcome
March, April, June, July	Science Textbook, NCERT Publication	Chemical Reactions and Equations		1) To perform and observe the different chemical reactions and classify them. 2) To solve the assignments on formulating and balancing chemical equations. 3) To identify oxidising agents and reducing agents from the given reactions.	Students will be able to, 1) Convert chemical changes into word equations and substitute the substance involved in the change by their symbols and formula. 2) Correlate law of conservation of mass in balancing the chemical equations. 3) Demonstarate types of chemical reactions and compare them. 4) Classify the reactions. 5) Comprehend and identify oxidation and reduction.
July, August		Acids, Bases ans Salts		1) To perform and study few properties of acids and bases. 2) To perform and identify the approximate pH level of different samples with the help of universal indicator or pH paper and classify them accordingly.	Students will be able to, 1) List and compare the properties of acids and bases. 2) Correlate the pH to acidic, basic, neutral substances. 3) Classify the substances into acids and bases by noting down the colour of pH. 4) Discuss the importance of pH in everyday life. 5) Tabulate the salts into their families based on certain charecteristics. 6) Justify the various uses of salts life and industry.
August, September, October		Metals and Non-metals		1) To observe the action of different metals on the given salt solutions and to arrange the metals based on their reactivity. 2) To draw the electron dot structure of different ionic compounds and present on chart paper.	Students will be able to, 1) Arrange metals into ascending and descending order of reactivity. 2) Acquire the knowledge of various methodologies used for extraction of metals based on their reactivity.

November		Carbon and Its Compounds		1) To do research and write about various types of organic compounds used in our daily life and represent covalent bond formation among those compounds with neat diagram. 2) To perform and study few physical and chemical properties of Ethanoic acid. 3) To perform and compare the cleaning action of a sample of soap in soft water and hard water.	Students will be able to, 1) Compile the various substances that are used in daily life which contain carbon. 2) Illustrate carbon with 4 valence electrons forming only covalent bonds. 3) Correlate the bonds formed as single, double, triple to the number of pairs of electrons shared between them. 4) Connect electron dot structure of atoms for the formation of covalent bonds. 5) Assign IUPAC names to the organic compounds. 6) Illustrate different chemical reactions performed by organic compounds. 7) Distinguish between the properties of soaps and detergents and their cleaning action.