

**ACADEMIC PLAN : 2023-24**  
**CARMEL CONVENT SR SEC SCHOOL , RATANPUR, BHOPAL. STD : IX**  
**SUBJECT : CHEMISTRY**

Month / No of Working Days	Name of the Unit / Chapter/Topic	Learning Outcomes	Suggested Activities/ Projects under Internal Assessment/PRACTICALS	Assignment	Assessment
APRIL	Chapter – 1 Matter in our surroundings	To observe and understand the physical nature of matter To compare the properties of solid liquid and gasses.	To perform activities showing characteristics of particles of matter.	Worksheet based on reasoning skill	MCQ Short questions
JUNE	Chapter -1	To gain knowledge about the processes responsible for the change in states of matter. To understand the process of evaporation and the factors affecting it.	To find out and write the examples showing evaporation in our daily life	Draw the diagram of interconversion of the three states of matter showing all the process required in changing three states of matter.	Cross word puzzle
JULY	Chapter – 2 Is matter around us pure?	To classify matter as pure substance and mixture. To recognise and differentiate between sol, suspension and colloids Students will be able to know about Tyndall effect. Students will be able to understand saturated, unsaturated and concentration of solution.	1 Preparation of : a) a true solution of common salt, sugar and alum b) a suspension of soil, chalk powder and fine sand in water. c) a colloidal solution of starch in water and egg albumin/milk in water and distinguish between these on the basis of transparency, filtration criterion and stability. 2 Preparation of: a) mixture b) compound using iron fillings and sulphur powder and distinguish between these on the basis of a) appearance b) behaviour	Learn the properties of solution, suspension and colloids Oral questions will be asked To practice numericals on concentration of solution.	PT – 1 Revision with various types of questions
AUGUST	Chapter – 2 Is matter around us pure?	To identify different types of physical change and chemical change Students will be able to differentiate compound and mixture.	towards a magnet c) behaviour towards carbon disulphide as a solvent d) effect of heat 3 Perform the following reactions and classify them as physical change or chemical change. a) Iron with copper sulphate solution in water. b) Burning of magnesium ribbon in air c) Zinc with dilute sulphuric acid d) Heating of copper sulphate crystals. e) Sodium sulphate and barium chloride in the form of their solutions in water.	To write examples of physical and chemical change.	Short questions Assertion reason questions MCQ Quiz
SEPTEMBER	Revision of chapter 1 and 2				PT - 2

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OCTOBER	Chapter – 3 Atoms and Molecules	To understand about law of chemical combination To gain knowledge about atom, atomic mass unit, molecules and ions.	To verify law of conservation of mass		Oral Test Written Test
NOVEMBER	Chapter – 3	To learn framing of chemical formula of compounds. To understand and calculate molecular mass of compounds		Discussion about the rules for writing chemical formula of some common compounds.	MCQ Quiz
DECEMBER	Chapter- 4 Structure of The Atom	To understand the rules for distribution of electrons in different shells. To define valency, atomic no, mass no	To make a chart showing atomic number, mass no, symbols, electronic configuration, valency of 20 elements in a creative way.	Draw the isotopes of hydrogen with no of proton, electron and neutrons	PT – 3 Revision case based questions
JANUARY	Revision for Final Exam				
FEBRUARY	Final Exam Chapter 1, 2, 3 & 4				Final Exam
MARCH					

NAME OF THE SUBJECT TEACHER : LEENA SHUKLA

SIGNATURE OF THE SUBJECT COORDINATOR :