

St. Xavier's School



Syllabus and Lesson Planner

Class	7	Syllabus		
Subject	CHEMISTRY	Syllabus		
Tr's Name	KAHKASHAN NIYAZ	2026-27		
Ch. No.	Name of Chapter	Topic	Month	Week
FIRST SEMESTER				
1	MATTER AND ITS COMPOSITION	DEFINITION OF MATTER, MATTER HAS MASS AND OCCUPIES SPACE	APRIL	3
		COMPOSITION OF MATTER, PROPERTIES OF STATES OF MATTER		
		INTERMOLECULAR ATTRACTION FOR DIFFERENT STATES OF MATTER		
		CHANGE OF STATE & INTERCONVERSION OF MATTER.		
2	PHYSICAL & CHEMICAL CHANGES	CHANGES - INTRODUCTION, CLASSIFICATION & CONDITIONS	APRIL - MAY	3
		EXPLANATION OF DIFFERENT CHANGES WITH EXAMPLE		
		COMPARISON BETWEEN PHYSICAL & CHEMICAL CHANGES		
		PHYSICAL CHANGE- CHANGE OF STATE OF MATTER		
		CHEMICAL CHANGE- EXAMPLES & ENERGY CHANGES		
3	ELEMENTS, COMPOUNDS & MIXTURES	MATTER, PURE & IMPURE SUBSTANCES	JUNE- JULY	4
		OCCURRENCE OF ELEMENT, ATOM		
		CLASSIFICATION & SYMBOLS OF ELEMENTS		
		REPRESENTATION OF ELEMENTS BY SYMBOLS		
		COMPOUNDS- TERM, CHARACTERISTICS & COMPARISON		
		COMPOUNDS- FORMULA OF A COMPOUND, SYMBOLS & VALENCY		
		COMPOUNDS- WRITING A CHEMICAL FORMULA,		
		MIXTURE- THE TERM, TYPES OF MIXTURE		
		ELEMENTS, COMPOUNDS & MIXTURES- A COMPARATIVE STUDY		
		SEPARATION OF MIXTURE		
4	ATOMIC STRUCTURE	INTRODUCTION OF ATOM, STRUCTURE, MODERN PERIODIC TABLE, MOLECULES OF ELEMENT & COMPOUND	JULY - AUGUST	5
		ATOMICITY, RADICALS, VALENCY, VALENCY CHART		
		CHEMICAL FORMULAS, CHEMICAL EQUATIONS, NAMES & SYMBOLS OF FIRST 20 ELEMENTS, CORRELATING VALENCY OF ELEMENTS WITH GROUP NUMBER.		
		REVISION		
		SEPTEMBER	2	
SECOND SEMESTER				
5	LANGUAGE OF CHEMISTRY	INTRODUCTION OF CHEMICAL REACTION, CHARACTERISTICS OF OCCURENCE OF A CHEMICAL REACTION- CHANGE OF COLOUR, STATE, SMELL, EVOLUTION OF GAS, PRECIPITATE FORMED.	OCTOBER - NOVEMBER	4
		CONDITION NECESSARY FOR A CHEMICAL REACTION		
		WRITING WORD EQUATIONS FOR CHEMICAL REACTIONS & EMPHASIZE ON THE OBSERVATIONAL SKILLS & NAMES OF PRODUCTS.		
		SOME EXAMPLES OF WORD EQUATIONS FOR PRACTICE		
6	METALS & NON-METALS	INTRODUCTION, OCCURRENCE, DIFFERENCE, PHYSICAL AND CHEMICAL PROPERTIES OF METAL AND NON-METAL.	NOVEMBER - DECEMBER	5
		CLASSIFICATION OF ELEMENTS AS METALS & NON-METALS		
		CORROSION OF IRON- RUSTING & ITS PREVENTION, ACTIVITIES.		
		USES OF CERTAIN METALS		
7	AIR & ATMOSPHERE	AIR- OCCURRENCE & DISCOVERY, COMPOSITION OF AIR & USES OF ITS COMPONENTS.	JANUARY - FEBRUARY	5
		UTILITY OF OXYGEN IN AIR, UTILITY OF CARBON DIOXIDE IN AIR, COMPOSITION, PROPERTIES & UTILITY OF WATER VAPOUR. INERT GASES.		
		AIR A MIXTURE GASES, POLLUTION IN AIR, ACID RAIN		
		COMPONENTS OF AIR- OXYGEN, OXIDATION OF NON-METALS AND METALS		
		COMBUSTION & RESPIRATION, COMBUSTION & RUSTING, MASS CHANGE DURING BURNING, USES OF OXYGEN.		
		REVISION FOR SEMESTER 2		
	FEBRUARY	3		