Chemistry

Recommended Time Table

Class-9

Chapter Names	Concepts	
1. Matter and Its Classification (4hours)	• Classification of Elements • Compounds • Mixtures	
	• Separation of mixtures	**(1 hour)**
	• Exercises	**(2 hours)**
	• Doubts Clarification	**(1 hour)**
2. Language of Chemistry (5 hours)	• Symbols • Formulae • Valency etc.	**(1 hour)**
	• Balancing chemical equations • Kinds of formulae	**(1 hour)**
	• Exercises	**(2 hours)**
	• Doubts Clarification	**(1 hour)**
3. Atomic Structure (5 hours)	• Production of fundamental particles	
	• Millikan's oil drop experiment	**(1 hour)**
	• Various atomic models • Atomic number	
	• Mass number isotopes etc.	**(1 hour)**
	• Problems and exercises	**(2 hours)**
	• Doubts Clarification	**(1 hour)**
4. Classification of Elements (4 hours)	• Dobernier triads • Newland's law of Octaves • Mendeleev's	
	• periodic table • Modern periodic table	**(1 hour)**
	• Characteristics of periods and groups • their gradation	**(1 hour)**
	• Exercises	**(1 hour)**
	• Doubts Clarification	**(1 hour)**
5. Chemical Bonding (4 hours)	• Types of chemical bonds-ionic • covalent and dative	**(1 hour)**
	• Exercises	**(2 hours)**
	• Doubts Clarification	**(1 hour)**
6. Study of Gas Laws (4 hours)	• Boyle's law, Charle's law • Avogadro's law • Graham's	
	• law of diffusion • Ideal gas equation	**(1 hour)**
	• Problems and exercises	**(2 hours)**
	• Doubts Clarification	**(1 hour)**
7. Atoms, Molecules and Ions (5 hours)	• Atomic mass • Molecular mass •Gay-lussac's law• Avogadro's law	**(1 hour)**
	• Formula mass • Mole concept • Molar volumes • Empirical and	
	• Molecular formulae	**(1 hour)**
	• Problems and exercises	**(2 hours)**
	• Doubts Clarification	**(1 hour)**
8. Solutions (4 hours)	• Solutions • Its types • Solubility, Factors affecting solubility	**(1 hour)**
	• Concentration • Methods of expressing concentration	**(1 hour)**
	• Problems and Exercises	**(1 hour)**
	• Doubts Clarification	**(1 hour)**
9. Nitrogen (3 hours)	• Occurrence • Preparation • Properties of N_2 • Nitrogen cycle	**(1 hour)**
	• Exercises	**(1 hour)**
	• Doubts Clarification	**(1 hour)**
10. Sulphur (4 hours)	• Occurrence • Allotropic forms and their transitions	**(1 hour)**
	• Extraction of sulphur • Properties • uses	**(1 hour)**
	• Exercises	**(1 hour)**
	• Doubts Clarification	**(1 hour)**

Chapter	Concepts	
11. Chlorine (3 hours)	Occurrence • Preparation • Properties • Uses	**(1 hour)**
	• Exercises	**(1 hour)**
	• Doubts Clarification	**(1 hour)**
12. Phosphorus and Its Compounds (4 hours)	Occurrence • Allotropic forms • Properties and uses	**(1 hour)**
	P_2O_5, H_3PO_4 and superphosphate of lime	**(1 hour)**
	• Exercises	**(1 hour)**
	• Doubts Clarification	**(1 hour)**
13. Analytical Chemistry (3 hours)	Qualitative Analysis • identification of gases • simple salts	
	• anions and cations	**(1 hour)**
	• Exercises	**(1 hour)**
	• Doubts Clarification	**(1 hour)**

Term - 1 (MCQ's: 50)	Term - 2 (MCQ's: 50)	Term - 3 (MCQ's: 50)
Chemistry: Chapters. 1 to 6	**Chemistry: Chapters. 7 to 10**	**Chemistry: Chapters. 1 to 13**