

DAV Public School

Sec-3, Dhurwa, Ranchi - 4

Session 2019-20

Class - X Science (Chemistry)

Topic / Syllabus to be taught month wise.

Chapter 1 Chemical reactions and Equations		
Apr-19	Chemical equation, Balanced chemical equation, implications of a balanced chemical equation, types of chemical reactions: combination, decomposition, displacement, double displacement, precipitation, neutralization, oxidation and reduction.	Period - 10
Chapter 2 Acids, bases and salts		
May-19	Their definitions in terms of furnishing of H ⁺ and OH ⁻ ions, General properties, examples and uses, concept of pH scale (Definition relating to logarithm not required), importance of pH in everyday life.	Periods - 5
Monthly Test - Chapter 1 (17 Marks)		
Chapter 2 Acids, bases and salts		
Jun-19	Preparation and uses of Sodium Hydroxide, Bleaching powder, Baking soda, Washing soda and Plaster of Paris.	Periods - 5
Chapter 3 Metals and Non-metals		
Jul-19	Properties of metals and non-metals; Reactivity series; Formation and properties of ionic compounds; Basic metallurgical processes; Corrosion and its prevention.	Periods - 10
Revision of Chapter 1 & 2. PT - I		
Chapter 4 Carbon and its Compounds		
Aug-19	Covalent bonding in carbon compounds. Versatile nature of carbon. Homologous series. Nomenclature of carbon compounds containing functional groups (halogens, alcohol, ketones, aldehydes, alkanes and alkynes), difference between saturated hydrocarbons and unsaturated hydrocarbons.	Periods - 7
Monthly Test - Chapter 3 (17 Marks)		
Sep-19	Revision of Chapter 1, 2 & 3. Half Yearly Exam	
Chapter - 4 Carbon and its Compounds		
Oct-19	Chemical properties of carbon compounds (combustion, oxidation, addition and substitution reaction). Ethanol and Ethanoic acid (only properties and uses), soaps and detergents.	Periods - 8
Monthly Test - Chapter - 4 (17 Marks)		
Chapter 5 Periodic classification of elements		
Nov-19	Need for classification, early attempts at classification of elements (Dobereiner's Triads, Newland's Law of Octaves, Mendeleev's Periodic Table), Modern periodic table, gradation in properties, valency, atomic number, metallic and non-metallic properties.	Periods - 10
Revision of Chapter 4 & 5(Half). PT - II		
Dec-19	Revision of Chapter 1 to 5 Pre - Board Exam	
Jan - 20	Revision of Chapter 1 to 5 PT - III	

Monthly Test

Chapter	Chapter Name	- Month	Marks
1	Chemical reactions and Equations	- May	17
2	Acids, Bases and Salts	- July	17
3	Metals and Non- metals	- Aug	17
4	Carbon and Its Compounds	- Oct	17

Periodic Test - I (Aug- 19)

Chapter	Chapter Name	Marks
1	Chemical reactions and Equations	17
2	Acids, Bases and Salts	

Periodic Test - II (Nov - 19)

Chapter	Chapter Name	Marks
4	Carbon and Its Compounds	17
5	Periodic classification of elements	

Periodic Test - III (Jan - 20)

Chapter	Chapter Name	Marks
1	Chemical reactions and Equations	3
2	Acids, Bases and Salts	3
3	Metals and Non- metals	3
4	Carbon and Its Compounds	5
5	Periodic classification of elements	3

Half Yearly (Sep - 19)

Chapter	Chapter Name	Marks
1	Chemical reactions and Equations	7
2	Acids, Bases and Salts	10
3	Metals and Non- metals	10

Pre - Board Exam (Dec - 19)

Chapter	Chapter Name	Marks
1	Chemical reactions and Equations	5
2	Acids, Bases and Salts	5
3	Metals and Non- metals	7
4	Carbon and Its Compounds	5
5	Periodic classification of elements	5