

CHEMISTRY (NEW VIDEOS)

CLASS XII

S.No	Chapter/ Topic	LINK
1	types of solution and concentration representation	https://youtu.be/VEwxl1jFJPA?si=pAxjh5MvRd18Ifc0
2	Raoult's law and solubility of gas in liquid, Henry law	https://youtu.be/VEwxl1jFJPA?si=1ofpp1nwP9xFcyDC
3	Colligative properties part 1	https://youtu.be/Gmwu8M23v60?si=J_DmaRtT9Tf3Nw5s
4	Colligative properties part 2	https://youtu.be/APM4-OVxVWg?si=KdgsHNxQ7I2IguCX
5	Abnormal molecular mass	https://youtu.be/f4oAib4bMj4?si=ouYJqU2LG0i9PDZM
6	Galvanic cell and Electrolytic cell	https://youtu.be/yyROKDQx7oY?si=7Dhaae1GD6mg5DVK
7	Standard hydrogen electrodes	https://youtu.be/FNadTfEKogY?si=jP_2r1iqJMc_RyZO
8	Effect of dilution on conductance of strong and weak electrolytes	https://youtu.be/pwe2psmGEoM?si=MFo57wT9K-UfT1ee
9	Nernst equations	https://youtu.be/Fg3FIFrnMDo?si=Z7lx9AandoBlrQ4l
10	Define the Average and Instantaneous Rate of a Reaction. Distinguish between Elementary and Complex Reactions. Express the Rate of a Reaction in terms of Change in Concentration of either of the Reactants or Products with Time.	https://youtu.be/_oV3-h7VGFA?si=OAaw8bg0uM1GpbLxA
11	Discuss the Dependence of Rate of Reaction on Concentration	https://youtu.be/EnFkK72_tOY?si=LRc4Lfvsrjg1HIIQ

	<p>Define Rate Law and Rate Constant</p> <p>Differentiate between the Molecularity and the Order of a Reaction</p>	
12	<p>Derive Integrated Rate Equations for the Zero and First Order Reactions</p> <p>Determine the Rate Constants for Zeroth and First Order Reactions</p> <p>Determine the Half-life of a Reaction</p>	<p>https://youtu.be/ttUQu0GvfdE?si=b_IzodqHETWNnwig</p>
13	<p>Discuss the Effect of Temperature on the Rate of Reactions: Arrhenius Equation</p> <p>Discuss the Effect of Catalyst on the Rates of Reactions</p> <p>Describe the Collision Theory of Chemical Reactions</p>	<p>https://youtu.be/jbLAY4y_tu8?si=aJ_GI3NZbbkQAk</p>
14	<p>Identify the d- and f- block elements in the periodic table</p> <p>Write the electronic configurations of the transition (d-block) elements and their ions</p> <p>Explain the general physical properties of the d-block</p> <p>Explain the trend and cause of variation of the atomic and ionic sizes of the transition elements</p>	<p>https://youtu.be/xjZX7EZkLcc?si=UG3XZ_863kzuST0Q</p>

15	<p>Describe the trend and variation in ionization energies for the d-block elements in the periodic table;</p> <p>Know the different oxidation states exhibited by the transition (d-block) elements and appreciate their relative stability;</p> <p>Describe trends in the standard electrode potential values of the transition series and chemical reactivity</p>	https://youtu.be/GTjijpdMC2Q?si=GCqr6ndFuLVG7OjH
16	<p>Explain the magnetic properties of the d-block elements;</p> <p>The formation of coloured ions and complex compounds;</p> <p>Know about the catalytic properties of the transition elements;</p> <p>Describe the formation of Interstitial compounds and alloys;</p> <p>Describe some of the important compounds of the transition elements like metal oxides and metal oxo-anions</p>	https://youtu.be/X7bvplYXMb8?si=6ODjEU64OrlhO7qm
17	<p>Write the electronic configurations of the inner transition (f- block) elements and their ions;</p>	https://youtu.be/9AMYM8X2zGM?si=Wq-jQyMtRU1pWiO0

	<p>Explain the general characteristics of the f-block elements (lanthanoids and actinoids) and the general horizontal and group trends in them;</p> <p>Describe the properties of the f-block elements and give a comparative account of the lanthanoids and actinoids with respect to their electronic configurations, oxidation states and chemical behaviour</p>	
18	<p>Appreciate the postulates of Werner's theory of coordination compounds</p> <p>Know the meaning of the terms: coordination entity, number, sphere, polyhedron and homoleptic, heteroleptic</p> <p>Learn the rules of nomenclature of coordination compounds and write formulas and names of mononuclear coordination compounds</p> <p>Understand different types of isomerism in coordination compound</p> <p>Understand the nature of bonding</p>	<p>https://drive.google.com/file/d/1CaDkweMRgJltWmkefniQrwhdzgG3o6FO/view?usp=drivesdk</p>

19	<p>The different types of isomerism shown by various coordination compounds</p> <p>Know that the bonds of coordination compounds have a directional property</p> <p>These compounds have magnetic properties and are generally coloured</p> <p>The nature of bonding in terms of valence bond theory and crystal field theory</p>	<p>https://drive.google.com/file/d/15isut52G1Clli38MRUeMMz5fl1yGUuWP/view?usp=drivesdk</p>
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