I PUC CHEMISTRY			
Sl.No.	**Topic**	**Concept**	**Link**
1	**some basic concepts of chemistry**	**matter**	https://www.youtube.com/watch?v=lUfNZ8tCTQc&t=55s
			https://www.youtube.com/watch?v=lUfNZ8tCTQc&list=PLNz32RYOjBeoySiHE6MTZOWQGpEhD5tnR
		properties of matter	https://www.youtube.com/watch?v=xPiL8gGF2Cw&index=2&list=PLNz32RYOjBeoySiHE6MTZOWQGpEhD5tnR
		uncertainty in measurements	https://www.youtube.com/watch?v=oKXzl0q9eOY&index=3&list=PLNz32RYOjBeoySiHE6MTZOWQGpEhD5tnR
		laws of chemical combination	https://www.youtube.com/watch?v=1Y8Wu1Yobro&index=4&list=PLNz32RYOjBeoySiHE6MTZOWQGpEhD5tnR
		atomic and molecular mass	https://www.youtube.com/watch?v=Rb24KFk25aw&index=5&list=PLNz32RYOjBeoySiHE6MTZOWQGpEhD5tnR
		mole	https://www.youtube.com/watch?v=8o0ew1kK1pc&index=6&list=PLNz32RYOjBeoySiHE6MTZOWQGpEhD5tnR
		stoichiometry	https://www.youtube.com/watch?v=gMLFlfYDbF0&index=7&list=PLNz32RYOjBeoySiHE6MTZOWQGpEhD5tnR
2	**Atomic structure**	**atomic model**	https://www.youtube.com/watch?v=fUvBQL3WG50&index=8&list=PLNz32RYOjBeoySiHE6MTZOWQGpEhD5tnR
		sub atomic particles	https://www.youtube.com/watch?v=_hDaJuOQJqw&index=9&list=PLNz32RYOjBeoySiHE6MTZOWQGpEhD5tnR
		isotopes	https://www.youtube.com/watch?v=MWCSfDNJsoY&index=10&list=PLNz32RYOjBeoySiHE6MTZOWQGpEhD5tnR
		planks theory	https://www.youtube.com/watch?v=_ezo-TKa0KQ&index=11&list=PLNz32RYOjBeoySiHE6MTZOWQGpEhD5tnR
		photoelectric effect	https://www.youtube.com/watch?v=yQVSuDNx7CE&index=12&list=PLNz32RYOjBeoySiHE6MTZOWQGpEhD5tnR
		visible spectra	https://www.youtube.com/watch?v=3zHp3fOq5Qc&index=13&list=PLNz32RYOjBeoySiHE6MTZOWQGpEhD5tnR
		bohrs theory	https://www.youtube.com/watch?v=odzTvGbEvsE&index=14&list=PLNz32RYOjBeoySiHE6MTZOWQGpEhD5tnR
		quantum mechanical model	https://www.youtube.com/watch?v=YpqWFqeDlZo&index=15&list=PLNz32RYOjBeoySiHE6MTZOWQGpEhD5tnR
			https://www.youtube.com/watch?v=mj9AxHiuZ-s&index=16&list=PLNz32RYOjBeoySiHE6MTZOWQGpEhD5tnR
		shapes of atomic orbitals	https://www.youtube.com/watch?v=8i12c2vLLmA&index=17&list=PLNz32RYOjBeoySiHE6MTZOWQGpEhD5tnR
			https://www.youtube.com/watch?v=McvofIu7aSM&index=18&list=PLNz32RYOjBeoySiHE6MTZOWQGpEhD5tnR
		electronic configuration	https://www.youtube.com/watch?v=ytoGyX37aXo&index=19&list=PLNz32RYOjBeoySiHE6MTZOWQGpEhD5tnR

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	atomic structure	iit-pal madras	https://www.youtube.com/watch?v=sjiU0-fHWNE&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr&index=31
		iit-pal madras	https://www.youtube.com/watch?v=PaZYz8BOUDI&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr&index=33
		iit-pal madras	https://www.youtube.com/watch?v=RNk0nkFDJRM&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr&index=35
		iit-pal madras	https://www.youtube.com/watch?v=nuDY3uriozw&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr&index=37
		iit-pal madras	https://www.youtube.com/watch?v=kpZDYllOixc&index=39&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr
		iit-pal madras	https://www.youtube.com/watch?v=aRoSJM5JXxw&index=41&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr
		iit-pal madras	https://www.youtube.com/watch?v=J230st8wYDM&index=83&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr
3	Classification of elements and periodicity of elemennts	A) Long Form of Periodic Table	https://youtu.be/t_f8bB1kf6M
		B) Trends of atomic radius	https://youtu.be/q--2WP8wXtk
		C) Ionisation Enthalpy	https://youtu.be/ywgg9PorTAw
		D) Trends of ionisation enthalpy	https://youtu.be/649ZlWMp0LE
		E) Electron gain enthalpy	https://youtu.be/PHgAz89gAEo
		F) Electronegativity	https://youtu.be/5z54GfoBP0k
4	chemical bonding and molecular structure	iit Madras	https://www.youtube.com/watch?v=iBnte9PwpUs&index=60&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr
		iit Madras	https://www.youtube.com/watch?v=ZyTuCTe69yw&index=62&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr
		iit Madras	https://www.youtube.com/watch?v=er-B1qx3ZO0&index=64&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr
		iit Madras	https://www.youtube.com/watch?v=cmJmHWQyOA8&index=66&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr
		iit Madras	https://www.youtube.com/watch?v=icIHm4qocVY&index=68&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr
		iit Madras	https://www.youtube.com/watch?v=oVSyJo99RIA&index=70&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr
		iit Madras	https://www.youtube.com/watch?v=fOAYYH7XEvg&index=72&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr
		a) Introduction ande Kosell and Lewis approch	https://www.youtube.com/watch?v=jWZKZojacPY
			https://www.youtube.com/watch?v=ZbUI0R8CTMc
		b) Ionic bond	https://www.youtube.com/watch?v=HRt8x60N1hs
		c) covelent bond	https://www.youtube.com/watch?v=xWTZrDRi8iw
		d) Lewis dot structure for simple molecules	https://www.youtube.com/watch?v=paChzLdWMlc&t=52s

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Sl.No.	**Topic**	**Concept**	**Link**
	chemical bonding and molecular	e) Bond parameters	https://www.youtube.com/watch?v=a1p5IUz5Ll0
		f) resonance structure	https://www.youtube.com/watch?v=WkJC_SYAaQQ
			https://www.youtube.com/watch?v=bUCu7bPkZeI
		g)VSEPR theory	https://www.youtube.com/watch?v=KpxziBqFGJU
			https://www.youtube.com/watch?v=TIVpeeYWODQ
		g) polarity of bonds	https://www.youtube.com/watch?v=RQIbDeqk_Yg
		i)valence bond theory	https://www.youtube.com/watch?v=r8V0Orcl6k4
		j) hybridisation	https://www.youtube.com/watch?v=IwNgNzcQvN0
			https://www.youtube.com/watch?v=Kb0mxAMHnfE
		k)molecular orbital theory	https://www.youtube.com/watch?v=bIkATZcfxbk
			https://www.youtube.com/watch?v=XodCVVmM9Vo
			https://www.youtube.com/watch?v=tQfo8FVCf3c
			https://youtu.be/m1k7hsRFfwo
5	States Of Matter	A) Gas Laws	https://youtu.be/BxUS1K7xu30
		B) van der Waals forces	https://youtu.be/PwveQxLLqD0
		C) Behaviour of Real Gases	https://youtu.be/5kT7oUB0q6Q
		C) Liquafaction of gases	https://youtu.be/l53a8uPoXEo
		D) surface tension	https://youtu.be/1Z_JqcHjJss
		E) Viscocity	https://youtu.be/m1k7hsRFfwo
	states of matter	iit madras	https://www.youtube.com/watch?v=nS_suNJwaqU&index=13&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr
		iit madras	https://www.youtube.com/watch?v=KcQAOnWPcZU&index=15&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr
		iit madras	https://www.youtube.com/watch?v=HtIS6DKR03U&index=17&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr
		iit madras	https://www.youtube.com/watch?v=4fvLDVoyHwA&index=19&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr
		iit madras	https://www.youtube.com/watch?v=f3hcvrnD1VA&index=21&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr
		iit madras	https://www.youtube.com/watch?v=dM0c0c5lL1E&index=23&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr
		iit madras	https://www.youtube.com/watch?v=qqo7wvQOlTA&index=24&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr
		iit madras	https://www.youtube.com/watch?v=fbXD0aFWYNg&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr&index=43

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6	**thermodynamics**	**iit Madras**	https://www.youtube.com/watch?v=CzUXCUrprbA&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr
		iit Madras	https://www.youtube.com/watch?v=I0Mq_5EJWLY&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr&index=3
		iit Madras	https://www.youtube.com/watch?v=bmgyW8Bw-jk&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr&index=5
		iit Madras	https://www.youtube.com/watch?v=_WC4B-e-nb4&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr&index=74
		iit Madras	https://www.youtube.com/watch?v=i48Vul3LKEk&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr&index=76
		iit Madras	https://www.youtube.com/watch?v=GnaNFdwkr1g&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr&index=78
		iit Madras	https://www.youtube.com/watch?v=sQWaicliZZo&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr&index=80
		iit Madras	https://www.youtube.com/watch?v=HqqVlXkcvsM&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr&index=82
	Thermodynamics	**a) Introduction**	https://www.youtube.com/watch?v=Oz2V-Azhf18
		Basic terms and concept	https://www.youtube.com/watch?v=zMBFtpfyLnA
			https://www.youtube.com/watch?v=dEmtDylNt0s
		thermodynamical quantity; work	https://www.youtube.com/watch?v=dEmtDylNt0s
		thermodynamics quantity: Enyhalpy	https://www.youtube.com/watch?v=07TR26VvJuY
		measuring change in internal energy	https://www.youtube.com/watch?v=07TR26VvJuY
		reaction enthalpy	https://www.youtube.com/watch?v=vZxzwonVvCw
		Thermochemical equation and Hess law	https://www.youtube.com/watch?v=GDcjL16WBGQ
		Enthalpy of solution	https://www.youtube.com/watch?v=5Nyt4UXzzVg
		criterion for spontanity of reaction	https://www.youtube.com/watch?v=lIzu9yqwjB0&t=187s
		Gibbs free energy chane and equilibrium	https://www.youtube.com/watch?v=s0ajfp35veA
		introduction,heat, work and internal energy	https://www.youtube.com/watch?v=_WC4B-e-nb4
		First law, internal energy,Entalpy	https://www.youtube.com/watch?v=i48Vul3LKEk&t=110s
		criterion for spontanity of reaction	https://www.youtube.com/watch?v=I0Mq_5EJWLY
		Gibbs free energy	https://www.youtube.com/watch?v=bmgyW8Bw-jk&t=156s
		Gibbs free energy chane	https://www.youtube.com/watch?v=bmgyW8Bw-jk

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7	**Equilibrium**	**A) Equilibrium in physical process**	https://youtu.be/BPOde7AqZJs
		B) Equilibrium experiment of dichromate ion and chromate ion	https://youtu.be/_jypU3FvS_o
		C) LeChatelier's principle	https://youtu.be/4-fEvpVNTlE
		D) pH Experiment	www.olabs.edu.in
		E)pH of different solutions	https://youtu.be/qHQOEOrcajg
		F) Salt Hydrolysis	https://youtu.be/-vIwTn7LZiM
		G) Buffers	www.khanacademy.org
		H) Solubility Product	https://youtu.be/p4559dZIFco
		I) Common ion effect	www.khanacademy.org
8	**redox reactions**		https://www.youtube.com/watch?v=eW__cV0jbfo&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr&index=55
			https://www.youtube.com/watch?v=8_d0bUeawXM&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr&index=56
			https://www.youtube.com/watch?v=HIWkkvJQYYA&index=58&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr
9	**basic concepts of organic chemistry**		https://www.youtube.com/watch?v=sq_god2UNVI
			https://www.youtube.com/watch?v=sq_god2UNVI&index=25&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr
			https://www.youtube.com/watch?v=ggF4flyunBw&index=26&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr
			https://www.youtube.com/watch?v=7jwMSGYakeA&index=27&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr
			https://www.youtube.com/watch?v=LqBHP7Gpb6A&index=28&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr
			https://www.youtube.com/watch?v=VKKe4VTdWjM&index=29&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr
			https://www.youtube.com/watch?v=YMWwtLh4ScE&index=51&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr
			https://www.youtube.com/watch?v=pJlFrNNmxO0&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr&index=53
10	**hydrocarbons**		https://www.youtube.com/watch?v=WEmQLkQnFQs&index=7&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr
			https://www.youtube.com/watch?v=orhaFTbWERA&index=9&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr
			https://www.youtube.com/watch?v=Ne27d48ySJ8&index=11&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr
11	**Hydrogen**	**Full lesson**	https://www.youtube.com/watch?v=ps8WmPrmOAw
		Di hydrogen preparation	https://www.youtube.com/watch?v=oVyFHyq0r-I
		hydrogen	https://www.youtube.com/watch?v=7Om56BAxJJ4

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12	**S-Block elements**	**alkali metals**	https://www.youtube.com/watch?v=_iEVogZA7VY
		Full lesson	https://www.youtube.com/watch?v=XTFs8_KmMno
		Alkali metal compounds	https://www.youtube.com/watch?v=dgiRe-CWn_M
		Alkaline earth metals	https://www.youtube.com/watch?v=TXDxw6DiirI
		Alkaline earth metal compounds	https://www.youtube.com/watch?v=zn_ggpIB5Oo
			https://www.youtube.com/watch?v=e-rESfpGWT4
13	**P-Block elements**	**Full lesson**	https://www.youtube.com/watch?v=k6-ZcacVzpQ
		General properties of 13 group	https://www.youtube.com/watch?v=WybePbAg5Y0&t=36s
		Group 13	https://www.youtube.com/watch?v=yN96LOv62SM
		Group 14	https://www.youtube.com/watch?v=7gjQIKZuCtY
		Allotropes	https://www.youtube.com/watch?v=wN-Dd070lhE
14	**Environmental chemistry**	**Pollution**	https://www.youtube.com/watch?v=R2cIZ-Ld6yg
		Air pollution	https://www.youtube.com/watch?v=MYSKFtsO84A
		Stratospheric pollution	https://www.youtube.com/watch?v=HmVkgM8lHJo
		water pollution	https://www.youtube.com/watch?v=MoZxI7pC5-s
		Soil pollution	https://www.youtube.com/watch?v=bfUTJOQKcXQ
		waste management	https://www.youtube.com/watch?v=udw2R02W2lQ
		green chemistry	https://www.youtube.com/watch?v=-R7YtLdg9Fo

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1	solids	types of crystalline solids	https://www.khanacademy.org/science/chemistry/chemical-bonds/types-chemical-bonds/v/covalent-networks-metallic-and-ionic-crystals
		defects in crstalline solids	http://minerva.mlib.cnr.it/mod/book/view.php?id=269&chapterid=116
		matter	https://www.youtube.com/watch?v=CEvBpPhRVJ8&list=PLNz32RYOjBerucfu000AYIqZdRU1duNXQ
			https://www.youtube.com/watch?v=0CpUGHA35Mg&list=PLNz32RYOjBerucfu000AYIqZdRU1duNXQ&index=2
			https://www.youtube.com/watch?v=RapDukQjHQc&index=3&list=PLNz32RYOjBerucfu000AYIqZdRU1duNXQ
			https://www.youtube.com/watch?v=bBvxTsXEqZU&list=PLNz32RYOjBerucfu000AYIqZdRU1duNXQ&index=4
		crystal lattice and unit cell	https://www.youtube.com/watch?v=3pfAlRa3OE4&list=PLNz32RYOjBerucfu000AYIqZdRU1duNXQ&index=5
			https://www.youtube.com/watch?v=RFliz1fvK9E&index=6&list=PLNz32RYOjBerucfu000AYIqZdRU1duNXQ
			https://www.youtube.com/watch?v=DhuKaiWQEM4&list=PLNz32RYOjBerucfu000AYIqZdRU1duNXQ&index=7
		close packed structures	https://www.youtube.com/watch?v=o4rGq75ZK8M&list=PLNz32RYOjBerucfu000AYIqZdRU1duNXQ&index=8
			https://www.youtube.com/watch?v=PUU2KA3160k&index=9&list=PLNz32RYOjBerucfu000AYIqZdRU1duNXQ
			https://www.youtube.com/watch?v=XwZXZ-UenUA&index=10&list=PLNz32RYOjBerucfu000AYIqZdRU1duNXQ
			https://www.youtube.com/watch?v=DHPGBV2I0ME&index=11&list=PLNz32RYOjBerucfu000AYIqZdRU1duNXQ
			https://www.youtube.com/watch?v=0Ub6qXnMd4U&index=12&list=PLNz32RYOjBerucfu000AYIqZdRU1duNXQ
		no. of particles per unit cell	https://www.youtube.com/watch?v=Pxm0PMDU91s&index=13&list=PLNz32RYOjBerucfu000AYIqZdRU1duNXQ
		imperfections	https://www.youtube.com/watch?v=jC9taPey58s&index=14&list=PLNz32RYOjBerucfu000AYIqZdRU1duNXQ
			https://www.youtube.com/watch?v=r5jnNl294Mk&index=15&list=PLNz32RYOjBerucfu000AYIqZdRU1duNXQ
			https://www.youtube.com/watch?v=8cBYhssfQwU&index=16&list=PLNz32RYOjBerucfu000AYIqZdRU1duNXQ
		conductivity	https://www.youtube.com/watch?v=mcHBx-D8XFE&index=17&list=PLNz32RYOjBerucfu000AYIqZdRU1duNXQ
		magnetic property	https://www.youtube.com/watch?v=VvPU2PzFcGc&index=18&list=PLNz32RYOjBerucfu000AYIqZdRU1duNXQ
2	Solutions		https://www.khanacademy.org/science/biology/membranes-and-transport/diffusion-and-osmosis/v/diffusion-and-osmosis
			https://www.khanacademy.org/science/biology/membranes-and-transport/diffusion-and-osmosis/v/osmosis
			https://www.khanacademy.org/science/biology/membranes-and-transport/diffusion-and-osmosis/v/hypotonic-isotonic-and-hyperto nic-solutions-tonicity
		oiling and freezing point	https://www.khanacademy.org/science/chemistry/states-of-matter-and-intermolecular-forces/mixtures-and-solutions/v/boiling-poi nt-elevation-and-freezing-point-supression
		vapor pressure	https://www.khanacademy.org/science/chemistry/states-of-matter-and-intermolecular-forces/states-of-matter/v/vapor-pressure
			https://www.khanacademy.org/science/chemistry/gases-and-kinetic-molecular-theory/ideal-gas-laws/v/vapor-pressure-example
			https://www.youtube.com/watch?v=VVP5RpSUN50&index=21&list=PLNz32RYOjBerucfu000AYIqZdRU1duNXQ
		solvent and solutions	https://www.youtube.com/watch?v=hML72IJVioA&list=PLCzaIJYXP5YczzI1gDyoaozNSAaE8n88H
		binary solutions	https://www.youtube.com/watch?v=kfcOZqIjGUc&index=2&list=PLCzaIJYXP5YczzI1gDyoaozNSAaE8n88H
			https://www.youtube.com/watch?v=XHl3oxFRzJQ&index=19&list=PLNz32RYOjBerucfu000AYIqZdRU1duNXQ
		concentration of solutions	https://www.youtube.com/watch?v=bb-3b0zm8xU&index=3&list=PLCzaIJYXP5YczzI1gDyoaozNSAaE8n88H

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		mole fraction	https://www.youtube.com/watch?v=9I2X1djcZk4&list=PLCzaIJYXP5YczzI1gDyoaozNSAaE8n88H&index=4
			https://www.youtube.com/watch?v=0Y9W4eW56uA&index=20&list=PLNz32RYOjBerucfu000AYIqZdRU1duNXQ
		ssolubality of a gas	https://www.youtube.com/watch?v=UBi-ZSi3Xb4&index=22&list=PLNz32RYOjBerucfu000AYIqZdRU1duNXQ
		colligative properties	https://www.youtube.com/watch?v=NIwHkecDgNQ
			https://www.youtube.com/watch?v=YnnS1RqgEv8&index=23&list=PLNz32RYOjBerucfu000AYIqZdRU1duNXQ
			https://www.youtube.com/watch?v=NIwHkecDgNQ&index=24&list=PLNz32RYOjBerucfu000AYIqZdRU1duNXQ
			https://www.youtube.com/watch?v=SsU_93c5bgs&index=25&list=PLNz32RYOjBerucfu000AYIqZdRU1duNXQ
		osmatic pressure	https://www.youtube.com/watch?v=tjJ7z5oPkU0&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr&index=30
			https://www.youtube.com/watch?v=xCsnfZyW2u8&index=52&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr
			https://www.youtube.com/watch?v=W7NyILFk2vk&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr&index=54
3	electrochemistry	redox reaaction	https://www.khanacademy.org/science/chemistry/oxidation-reduction/modal/v/redox-reaction-from-dissolving-zinc-in-copper-sulfate
		galvanic cell	https://www.khanacademy.org/science/chemistry/oxidation-reduction/modal/v/galvanic-cell-voltaic-cell
			https://www.khanacademy.org/science/chemistry/oxidation-reduction/modal/v/electrodes-and-voltage-of-galvanic-cell
			https://www.khanacademy.org/science/chemistry/oxidation-reduction/modal/v/shorthand-notation-for-galvanicvoltaic-cells
		cell potential	https://www.khanacademy.org/science/chemistry/oxidation-reduction/modal/v/standard-reduction-potentials
			https://www.khanacademy.org/science/chemistry/oxidation-reduction/modal/v/using-reduction-potentials
			https://www.khanacademy.org/science/chemistry/oxidation-reduction/modal/v/voltage-as-an-intensive-property
			https://www.khanacademy.org/science/chemistry/oxidation-reduction/modal/v/spontaneity-and-redox-reactions
			https://www.khanacademy.org/science/chemistry/oxidation-reduction/modal/v/standard-cell-potential-and-the-equilibrium-constant
			https://www.khanacademy.org/science/chemistry/oxidation-reduction/modal/v/calculating-the-equilibrium-constant-from-the-standard-cell-potential
			https://www.khanacademy.org/science/chemistry/oxidation-reduction/modal/v/free-energy-and-cell-potential
		Nernst equation	https://www.khanacademy.org/science/chemistry/oxidation-reduction/modal/v/galvanic-cells-and-changes-in-free-energy
			https://www.khanacademy.org/science/chemistry/oxidation-reduction/modal/v/nernst-equation
			https://www.khanacademy.org/science/chemistry/oxidation-reduction/modal/v/using-the-nernst-equation
			https://www.khanacademy.org/science/chemistry/oxidation-reduction/modal/v/concentration-cell
		electrolysis	https://www.khanacademy.org/science/chemistry/oxidation-reduction/modal/v/introduction-to-electrolysis
			https://www.khanacademy.org/science/chemistry/oxidation-reduction/modal/v/quantitative-electrolysis
			https://www.khanacademy.org/science/chemistry/oxidation-reduction/modal/v/electrolysis-of-molten-sodium-chloride
		Batteries	https://www.khanacademy.org/science/chemistry/oxidation-reduction/modal/v/lead-storage-battery
			https://www.khanacademy.org/science/chemistry/oxidation-reduction/modal/v/nickel-cadmium-battery
		electrochemistry	https://www.youtube.com/watch?v=TNn0fmujzmg&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr&index=32
		electrochemistry	https://www.youtube.com/watch?v=OfbZ2HnxGAo&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr&index=34
		electrochemistry	https://www.youtube.com/watch?v=EAeeMCP7ErQ&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr&index=36
		electrochemistry	https://www.youtube.com/watch?v=AHwvXXYXDIw&index=38&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr
		electrochemistry	https://www.youtube.com/watch?v=W0D1wK3OsHg&index=40&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr

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		electrochemistry	https://www.youtube.com/watch?v=-gfHeqiFKbo&index=42&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr
4	chemical kinetics	Rate of chemical reaction	https://www.youtube.com/watch?v=rYqGYzw2voI
		Effect ofconcentrationon rate,order of reaction	https://www.youtube.com/watch?v=tiW7nuyRE4k
		Molecularity of a reaction	https://www.youtube.com/watch?v=m8S2nKFGHxs
		intigrated rate equatios	https://www.youtube.com/watch?v=m0XJzScpSsk
		Half life of a reaction	https://www.youtube.com/watch?v=8U5XHKvTwps
		Psuedo First order reaction	https://www.youtube.com/watch?v=HxAU2sn2AF0
		Effect of temperature on rate reaction	https://www.youtube.com/watch?v=VkqjaaFaK1g
		Effect of catalyst on rate reaction and	https://www.youtube.com/watch?v=qSjmlJITA9A
5	surface chemistry	Adsorption; Introduction	https://www.youtube.com/watch?v=tvmV_fIa52k
		Types of adsorption	https://www.youtube.com/watch?v=tvmV_fIa52k
		Adsorption Isotherms	https://www.youtube.com/watch?v=3zrDRZw-Tjo
		Applications of adsorptions	https://www.youtube.com/watch?v=D8UTQ7okPuE
		Catalysis , types and Adsorption theory	https://www.youtube.com/watch?v=J6pB3P1UWOA
		Enzyme catalysis and catalyst in industry	https://www.youtube.com/watch?v=ri5L8UmKbwk
		Colloids: classification- nature on interaction	https://www.youtube.com/watch?v=ri5L8UmKbwk
		Colloids: classification- types on particles	https://www.youtube.com/watch?v=ri5L8UmKbwk
		colloide: preparation and purification	https://www.youtube.com/watch?v=RqttYm0DnNg
		properties of collidal solutions-1	https://www.youtube.com/watch?v=oNP10LltDds
		properties of collidal solutions-2	https://www.youtube.com/watch?v=_ufWCg8zJNg
		Emulsions	https://www.youtube.com/watch?v=EmN_nhQYALk
		Colloides arround us	https://www.youtube.com/watch?v=iw8ryzzEsxU
6	General principles and process of isolation of elements	ores and concentration	https://www.youtube.com/watch?v=8oTdCGj334U&t=279s
		occurence	https://www.youtube.com/watch?v=VsZA7tuwY0c
		concentration	https://www.youtube.com/watch?v=F-3Fo4Vbz_w
		extraction of crude metal	https://www.youtube.com/watch?v=8uVJuZ90Z0I&t=8s
		ellingham diagram	https://www.youtube.com/watch?v=IIIx5V12xfo&t=3s
		thermodynamic principles	https://www.youtube.com/watch?v=3a-DsyZrdB0
		copper and zinc extraction	https://www.youtube.com/watch?v=V6yYUfa2oxU
		extraction of iron	https://www.youtube.com/watch?v=Hs9pjHYz-5A&t=5s
		Blast furnace	https://www.youtube.com/watch?v=NlAoaajyjpM
		General information	https://www.youtube.com/watch?v=8YqBzwMQeZs

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		refining of metals	https://www.youtube.com/watch?v=L7ACDifFLQs&t=18s
7	P-Block elements	full lesson 1	https://www.youtube.com/watch?v=kNFXJxX72uY&t=258s
		2	https://www.youtube.com/watch?v=Xvt11injjIA
		3	https://www.youtube.com/watch?v=8YM-zFf2xak
		4	https://www.youtube.com/watch?v=EO3WNzhbXYo
		contact process	https://www.youtube.com/watch?v=Bu3ns9Ii80M
			https://www.youtube.com/watch?v=_zj3bMjFclA
			https://www.youtube.com/watch?v=eHNs8RP7JFE
		Haber process	https://www.youtube.com/watch?v=Ou2U0pkCC88
			https://www.youtube.com/watch?v=hK4vXKaBJko
			https://www.youtube.com/watch?v=o1_D4FscMnU
			https://www.youtube.com/watch?v=S1vcwpaCstw
		Ostwald process	https://www.youtube.com/watch?v=FIxz7biiIG0
8	d-f block elements		https://www.youtube.com/watch?v=shFNKWtKBo8&index=14&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr
			https://www.youtube.com/watch?v=Lw_-s0eOV8Q&index=16&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr
			https://www.youtube.com/watch?v=HZgonK3UMbU&index=18&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr
			https://www.youtube.com/watch?v=MLAfmca03XM&index=20&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr
			https://www.youtube.com/watch?v=yz1jhmiZKKY&index=22&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr
			https://www.youtube.com/watch?v=S6TEcml4fCA&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr&index=44
9	coordination compounds		https://www.youtube.com/watch?v=hIHNUVBvVkU&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr&index=45
	coordination compounds		https://www.youtube.com/watch?v=VvRlQ8DNJ_0&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr&index=46
	coordination compounds		https://www.youtube.com/watch?v=pvs0JGBJ5Vk&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr&index=47
	coordination compounds		https://www.youtube.com/watch?v=5GFPFXWPK9I&index=48&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr
	coordination compounds		https://www.youtube.com/watch?v=RlefRMtUQvk&index=49&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr
	coordination compounds		https://www.youtube.com/watch?v=1usd327Y37w&index=50&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr
	coordination compounds		https://www.youtube.com/watch?v=BZ_tY88o0oI&list=PLbMVogVj5nJTWU1tCPCtLBaiWNsJRAiZZ
	coordination compounds		https://www.youtube.com/watch?v=3FNv2IetXz0&list=PLbMVogVj5nJTWU1tCPCtLBaiWNsJRAiZZ&index=2
	coordination compounds		https://www.youtube.com/watch?v=NEY8gs3a9Gk&list=PLbMVogVj5nJTWU1tCPCtLBaiWNsJRAiZZ&index=3
	coordination compounds		https://www.youtube.com/watch?v=PbCcjKdEKhE&list=PLbMVogVj5nJTWU1tCPCtLBaiWNsJRAiZZ&index=4
	coordination compounds		https://www.youtube.com/watch?v=_0AoNJiTv9U&list=PLbMVogVj5nJTWU1tCPCtLBaiWNsJRAiZZ&index=5
	coordination compounds		https://www.youtube.com/watch?v=4NhdsNG4ReA&list=PLbMVogVj5nJTWU1tCPCtLBaiWNsJRAiZZ&index=6
	coordination compounds		https://www.youtube.com/watch?v=QPFIlky6qQc&index=7&list=PLbMVogVj5nJTWU1tCPCtLBaiWNsJRAiZZ

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		coordination compounds	https://www.youtube.com/watch?v=aVIJRxFpIzY&index=8&list=PLbMVogVj5nJTWU1tCPCtLBaiWNsJRAiZZ
		coordination compounds	https://www.youtube.com/watch?v=B5ph6jAVfaI&index=9&list=PLbMVogVj5nJTWU1tCPCtLBaiWNsJRAiZZ
		coordination compounds	https://www.youtube.com/watch?v=FDoXb2_jeXE&index=10&list=PLbMVogVj5nJTWU1tCPCtLBaiWNsJRAiZZ
		coordination compounds	https://www.youtube.com/watch?v=OT1i57RG5Js&index=11&list=PLbMVogVj5nJTWU1tCPCtLBaiWNsJRAiZZ
		coordination compounds	https://www.youtube.com/watch?v=bufIQWKXLio&index=12&list=PLbMVogVj5nJTWU1tCPCtLBaiWNsJRAiZZ
		coordination compounds	https://www.youtube.com/watch?v=XF1d571UWCA&index=13&list=PLbMVogVj5nJTWU1tCPCtLBaiWNsJRAiZZ
		coordination compounds	https://www.youtube.com/watch?v=r1hwXNfSOUM&index=14&list=PLbMVogVj5nJTWU1tCPCtLBaiWNsJRAiZZ
		coordination compounds	https://www.youtube.com/watch?v=5_XiWbHswqY&index=15&list=PLbMVogVj5nJTWU1tCPCtLBaiWNsJRAiZZ
		coordination compounds	https://www.youtube.com/watch?v=Kqcd4xSnxGg&index=16&list=PLbMVogVj5nJTWU1tCPCtLBaiWNsJRAiZZ
		coordination compounds	https://www.youtube.com/watch?v=urXl_8VCqps&index=17&list=PLbMVogVj5nJTWU1tCPCtLBaiWNsJRAiZZ
		coordination compounds	https://www.youtube.com/watch?v=LuAykMSLK_w&index=18&list=PLbMVogVj5nJTWU1tCPCtLBaiWNsJRAiZZ
		coordination compounds	https://www.youtube.com/watch?v=F3WyBwKRBE0&index=19&list=PLbMVogVj5nJTWU1tCPCtLBaiWNsJRAiZZ
		coordination compounds	https://www.youtube.com/watch?v=e9SMMA9Xe9c&index=20&list=PLbMVogVj5nJTWU1tCPCtLBaiWNsJRAiZZ
		coordination compounds	https://www.youtube.com/watch?v=tSW3CDiNvj4&index=21&list=PLbMVogVj5nJTWU1tCPCtLBaiWNsJRAiZZ
		coordination compounds	https://www.youtube.com/watch?v=Rf1luRh6Y5w&list=PLbMVogVj5nJTWU1tCPCtLBaiWNsJRAiZZ&index=22
		coordination compounds	https://www.youtube.com/watch?v=akDgsFPf4Ho&list=PLbMVogVj5nJTWU1tCPCtLBaiWNsJRAiZZ&index=23
		coordination compounds	https://www.youtube.com/watch?v=1x9VRJLwEZI&list=PLbMVogVj5nJTWU1tCPCtLBaiWNsJRAiZZ&index=24
		coordination compounds	https://www.youtube.com/watch?v=gvgdBUYb0YQ&list=PLbMVogVj5nJTWU1tCPCtLBaiWNsJRAiZZ&index=25
		coordination compounds	https://www.youtube.com/watch?v=Pyq5oN_sKSo&list=PLbMVogVj5nJTWU1tCPCtLBaiWNsJRAiZZ&index=26
		coordination compounds	https://www.youtube.com/watch?v=awD1qa7TF4A&list=PLbMVogVj5nJTWU1tCPCtLBaiWNsJRAiZZ&index=27
		coordination compounds	https://www.youtube.com/watch?v=lGhrkvrpow4&list=PLbMVogVj5nJTWU1tCPCtLBaiWNsJRAiZZ&index=28
		coordination compounds	https://www.youtube.com/watch?v=U_n7DyCqv6U&list=PLbMVogVj5nJTWU1tCPCtLBaiWNsJRAiZZ&index=29
		coordination compounds	https://www.youtube.com/watch?v=_eakXY3Yv8&list=PLbMVogVj5nJTWU1tCPCtLBaiWNsJRAiZZ&index=30

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		coordination compounds	https://www.youtube.com/watch?v=n4cIKKI3_eU&index=35&list=PLbMVogVj5nJTWU1tCPCtLBaiWNsJRAiZZ
		coordination compounds	https://www.youtube.com/watch?v=1W7dou4kAU8&index=31&list=PLbMVogVj5nJTWU1tCPCtLBaiWNsJRAiZZ
		coordination compounds	https://www.youtube.com/watch?v=r4JgF9MG9E4&index=32&list=PLbMVogVj5nJTWU1tCPCtLBaiWNsJRAiZZ
		coordination compounds	https://www.youtube.com/watch?v=Dl6gaTnKexU&index=33&list=PLbMVogVj5nJTWU1tCPCtLBaiWNsJRAiZZ
		coordination compounds	https://www.youtube.com/watch?v=o9TLamng7l4&index=34&list=PLbMVogVj5nJTWU1tCPCtLBaiWNsJRAiZZ
		coordination compounds	https://www.youtube.com/watch?v=n4cIKKI3_eU&index=35&list=PLbMVogVj5nJTWU1tCPCtLBaiWNsJRAiZZ
		coordination compounds	https://www.youtube.com/watch?v=Fzg95kzoe-k&index=36&list=PLbMVogVj5nJTWU1tCPCtLBaiWNsJRAiZZ
		coordination compounds	https://www.youtube.com/watch?v=tcd2In933ig&index=37&list=PLbMVogVj5nJTWU1tCPCtLBaiWNsJRAiZZ
		coordination compounds	https://www.youtube.com/watch?v=Z7ng-Dfd0kc&index=38&list=PLbMVogVj5nJTWU1tCPCtLBaiWNsJRAiZZ
		coordination compounds	https://www.youtube.com/watch?v=ez40OIQrP60&index=39&list=PLbMVogVj5nJTWU1tCPCtLBaiWNsJRAiZZ
		coordination compounds	https://www.youtube.com/watch?v=CpAEBbwSXoc&index=40&list=PLbMVogVj5nJTWU1tCPCtLBaiWNsJRAiZZ
10	Haloalkanes and Haloarenes	A) Classification and Nomenclature	https://youtu.be/2TaSBTfuWB8
		B)Nucleophilic Substitution Reaction	https://youtu.be/nGyI3mzOgaM
		C) Stereochemical aspects of Nucleophilic Substitution Reaction	https://youtu.be/si3DCzxiGRw
		D) Optical isomerism	https://youtu.be/RBtgAz70_JY
		E) Physical propetties	https://youtu.be/eYIsgW6EFtw
		F) Polyhalogen compounds	https://youtu.be/plr3TLEg5VI
		G) Chairality	https://youtu.be/3WZZXPOsPNI
		H) SN1 and SN2 mechanism	https://youtu.be/TnY1S5IdVqI
			https://www.youtube.com/watch?v=PbrlolsaIts&index=6&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr
			https://www.youtube.com/watch?v=ttePqNS6eFM&index=8&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr
			https://www.youtube.com/watch?v=NbYPTT-cPBc&index=10&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr

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			https://www.youtube.com/watch?v=TTlhg1EWaUU&index=12&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr
11	Alcohols, Phenols and Ethers	A) Alcohols and Phenols : Classification and Nomenclature	https://youtu.be/GfjL9xFnjkc
		B) Structure of Functional Group and preparation	https://youtu.be/DthTPnR0dx8
		C) Ethers : Classification and Nomenclature	https://youtu.be/9NJ5lRp0CMw
		D) Alcohols and Phenols - Physical Properties	https://youtu.be/GV9weYK0GeU
		E)chemical reactions	https://youtu.be/oEKc7VhseEU
12	Aldehydes,Ketones and Carboxylic acids	A)Introduction	https://youtu.be/bLj_ic9XDas
		B) Nomenclature	https://youtu.be/543cD4lNdYo
		C) Peparation	https://youtu.be/KbXhZtg6uBw
		D) Structure and physical properties	https://youtu.be/4aMGO5p4uq0
		E) chemical reactions	https://youtu.be/opzIzcYSLzI
		F) Carboxylic Acids : Nomenclature	https://youtu.be/-gZOiYF0Pcc
		G) Carboxylic acids : Preparation	www.khanacademy.org
		c) Carboxylic Acids : Properties	https://youtu.be/p4559dZIFco
	carbonyl compounds		https://www.youtube.com/watch?v=ifKV1TIfUjw&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr&index=2
			https://www.youtube.com/watch?v=iphgAz-cQto&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr&index=4
			https://www.youtube.com/watch?v=Rta_CVL6H2E&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr&index=75
			https://www.youtube.com/watch?v=SZcje7UlCCg&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr&index=77
			https://www.youtube.com/watch?v=sgIVnWxQG-Q&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr&index=79
			https://www.youtube.com/watch?v=NOlhXtw5m9M&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr&index=81
13	Amines	A) Structure, Classification and Nomenclature	https://youtu.be/zfZ11pv5W-g
		B) Preparation	https://youtu.be/-5tZEw6HMNo
		C) Basic Character	https://youtu.be/HYSaZ-pXECI
		D) Diazinium salts	https://youtu.be/O4TOIbXjdi8
	organic compounds containing nitrogen		https://www.youtube.com/watch?v=naWV4VbnFsM&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr&index=57
			https://www.youtube.com/watch?v=xrb77eaYw7w&index=59&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr
			https://www.youtube.com/watch?v=op4KlW4loEA&index=61&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr
			https://www.youtube.com/watch?v=QTfmy8QW1n8&index=63&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr
			https://www.youtube.com/watch?v=9QtvHtB_aJU&index=65&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr
14	Biomolecules	Introduction	https://www.youtube.com/watch?v=RjxYgUkRYgU
		Carbohydrates	https://www.youtube.com/watch?v=nmd6dY0vpyc
		glucose	https://www.youtube.com/watch?v=npW0htcQ5G4
			https://www.youtube.com/watch?v=WtOzn_B6NXM
		Disaccharides	https://www.youtube.com/watch?v=eo2aImI8A4Q
		Amino acids and proteins	https://www.youtube.com/watch?v=o-ZmG-_mz8c
		Vitamins	https://www.youtube.com/watch?v=jy4uVSM9IGI
		nucleic acids	https://www.youtube.com/watch?v=HryiOKeJwA8

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15	Polymers	Full lesson	https://www.youtube.com/watch?v=OxdJlS0xZ0Y&t=1087s
			https://www.youtube.com/watch?v=JnMYzZwwMC4
			https://www.youtube.com/watch?v=rmcxHKpnIG8
			https://www.youtube.com/watch?v=fTCvLQgBK54
			https://www.youtube.com/watch?v=gkxERNStwvw
			https://www.youtube.com/watch?v=7GOPXSF4RVI
			https://www.youtube.com/watch?v=GvFPjN4-0ms&index=67&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr
			https://www.youtube.com/watch?v=6t0gy9_3UIs&index=69&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr
			https://www.youtube.com/watch?v=SOz5tXz-lVI&index=71&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr
			https://www.youtube.com/watch?v=RaLRYJ9cXV0&list=PL5oCdOafm7vQJVPaa5TKcv9sZGh5fROjr&index=73
16	Chemistry in everyday life	Full lesson	https://www.youtube.com/watch?v=pkPe0seI1Zk&t=536s
			https://www.youtube.com/watch?v=sL4KT8I_W3s