BCM SCHOOL

A Sr. Sec School Affiliated to CBSE,New Delhi

Annual Academic Calendar

Class:- X Subject: CHEMISTRY Session:- 2020-2021

MONTH	TOPIC	LEARNING OUTCOMES	SOURCE/RESOURCES	SUGGESTED ACTIVITIES
	CHAPTER-1 CHEMICAL REACTIONS AND EQUATIONS	The learners would be able to		
	Occurrence of chemical reaction	Demonstrate and verify chemical changes	https://www.youtube.com/watch?v =ajT9bLMsxWU	Identify any 5 chemical and physical changes in your daily life processes
	Chemical equation	*Relate chemical changes to daily life situations	https://www.youtube.com/watch?v =ajT9bLMsxWU	After watching link 2 write any ten word equations and convert them into formulae.
	Balancing of chemical equation	Convert chemical change into word equation	https://www.youtube.com/watch?v =ajT9bLMsxWU	Balance the chemical equations given the assignment.
		Substitute it by symbols and formula		
APRIL		Correlate law of conservation of mass to balancing of chemical equations		
	Types of chemical reactions			
	-Combination	Compare the different types of reactions	https://www.youtube.com/watch?v =HmNsQKLRgh8	To find at least 5 examples of each type of chemical reaction.
	-Decomposition	Demonstrate types of chemical reactions		
	-Displacement			
	-Double displacement			
	-Redox reaction	Compare the reactions as oxidation and reduction	https://www.youtube.com/watch?v =tYKr5ozhvlY	Find out few examples of oxidation and reduction from your daily life
	Oxidation in everyday life	Apply oxidation in daily life	https://www.youtube.com/watch?v =gWPjVF3WFzU	Suggest some methods of preventing corrosion of metals.
	-Corrosion			
	-Rancidity			

	CHAPTER-2			
	ACIDS, BASES AND SALTS			
	Classification of matter – Acids,	Demonstrate the properties of acids	https://www.youtube.com/watch?v	Enlist any 5 acids and bases present in
	Bases and Salts	and bases	=Jfa2wxpJJBA&list=PLCgDuK3YlhBfIK	your home.
			ERwalpWH9jutqCMAuh&index=44	
	Indicators and its types	Identify the substances as acids or bases		Perform activity given on page no.35 of NCERT
	Chemical properties of acids and	List the properties of acids and bases		Complete the assignment of chemical
	bases	after performing the activities.	https://www.youtube.com/watch?v =0Rf98pXvPrI	reactions based on the chemical properties of metals and non-metals
MAY	pH scale- definition and applications	Correlate the pH to acidic, basic and neutral substances.		
MAI		Test the pH of solutions and classify		
		them by noting the color of the pH	https://www.youtube.com/watch?v	-
		paper.	=r3hirzlWILM	performing activity with pH paper
		Discuss the importance of pH in everyday life		
	Salts- its types and pH	Associate formation of salts to various		Prepare a table containing ten salts with
		reactions	intips.//www.youtube.com/watch:v=1	Complete table 2.2 of NCERT by serforming activity with pH paper repare a table containing ten salts with heir respective acids and bases from which they are formed
		*Identify the parent acid and base	https://www.youtube.com/watch?v=T	which they are formed
	Some important salts of Sodium and	from which the salt is formed	qWfllu0P0	
	calcium- preparation, properties and			
	uses.			
		Justify the various uses of salts in daily		
		life and industry		assignment
	Water of crystallization	understand the meaning and role of	https://www.youtube.com/watch?v=	*Find out any 5 salts which have water of
		water of crystallization in determining the color of the salt	<u>BGhIPzx49ik</u>	crystallization
		the color of the sait		

	CHAPTER-3			
	METALS AND NON METALS			
	Classification of elements	Demonstrate the properties of metals and non-metals	https://www.youtube.com/watch?v= AJbe5THaNuU	Study the physical properties of metals using small pieces of metals like iron, copper, aluminium, gold and silver
	Physical properties of metals and	Compare the properties of both metals and non-metals		
	non-metals and its applications	Identify the metals and non-metals from the given samples		
		REVISIO	ON AND TEST	
JUNE		SUMM	ER BREAK	
JULY	CHAPTER-3			
	METALS AND NON-METALS (CONTD.)			
	Chemical properties of metals and non-metals	Associate the reactivity of metals on the basis of chemical reactions	https://www.youtube.com/watch?v=Y xnN5vLW9F4	After watching the link enlist 5 chemical differences between metals and non-metals
			https://www.youtube.com/watch?v=S ffu3LaRZFM	
	Reactivity series	Tabulate the reactivity series of metals		Solve the assignment based on reactivity series
		Arrange the metals into ascending and descending order of reactivity	https://www.youtube.com/watch?v=1 9kSxlQWXKo	
	Electron dot structure and ionic bonding	Illustrate electronic configuration of elements		
		Correlate valency and type of bond formed	https://www.youtube.com/watch?v=9 tm2RGdT	
	Properties of ionic compounds	Draw schematic diagrams and study the properties of ionic compounds	https://www.youtube.com/watch?v=r HKuqqJSU w	Find out few compounds having ionic bond, also show the electron transfer in them
AUG	CHAPTER -4			
1100	CARBON AND ITS COMPOUNDS			

	Importance of the carbon element	Discover the application of carbon in everyday life	https://www.youtube.com/watch?v=PwD29Gbiw68	Compile the various substances that are used in daily life which contains carbon
	Versatile nature of carbon	Illustrate carbon with 4 valence electrons forming only covalent bonds	https://www.youtube.com/watch?v=g ipyujuKMf4	On the basis of tetravalency of carbon enlist any 5 compounds of carbon
	-tetravalency		https://byjus.com/chemistry/introduction-to-carbon-compounds/	
	-catenation			
	Covalent bonding in carbon compounds Homologous series	Correlate the number of bonds formed to the number of pairs of electrons shared	https://www.youtube.com/watch?v=y gQrhTcK9J0	Draw the electron dot of the compounds given in the assignment
		Classify the homologous series and its characters		
		Apply the general formula and identify the homologous series	https://www.youtube.com/watch?v=i vy6NBCC6to	Create a chart of homologous series of alkane, alkenes and alkynes on A4 size sheet
			https://www.youtube.com/watch?v= Q7I2R6YWWwo	
			VISION	
SEPT		EXAM	IINATION	
	CHAPTER- 5			
	PERIODIC CLASSIFICATION OF ELEMENTS			
	Classification of elements	Classify elements according to their properties	https://www.youtube.com/watch?v=E <u>Uyf17l2hmw</u>	Identify any five areas in your home where you do classification
	-Doberneir triads			
OCT	Newland law of octaves and its limitations	Discover salient features of every classification		Create a short video dedicated to different scientist who showed their participation in the discovery of Modern Periodic table
	Mendeleev periodic law and table	Understand the changes in classification over time	https://www.youtube.com/watch?v=0 vIScP0aXN8	

	Merits and demerits of Mendeleev periodic table	Find out the achievements and limitations of every classification	https://www.youtube.com/watch?v= GyNNMHLPCrY	Try to find at least 5 more facts about the Modern Periodic table that you have not studied in NCERT
	Modern periodic law and table	Discover the salient features of the periodic table		
		Understand the advantages and disadvantages of the modern periodic table	https://byjus.com/chemistry/modern- periodic-table-modern-periodic-law/	Learn the atomic mass and number of first 30 elements
	CHAPTER- 5			
	PERIODIC CLASSIFICATION OF ELEMENTS(contd.)			
	Periodic properties	Predict the properties of the element from its position in the periodic table	https://www.youtube.com/watch?v= CbroKaLFoL8	Prepare a chart representing the trends of all the periodic properties collectively
NOV	-Atomic size			
	-Valency			
	Metallic and Non-metallic character	Appreciate the periodic trends in the properties of elements	https://www.youtube.com/watch?v= NZLiFrwyOtg	Solve the assignment based on the
	-Electronegativity	Calculate the number of valence electrons and the valency of an element		Solve the assignment based on the periodic properties
REVISION AND TEST				

DELETED CHAPTERS			
SR.NO	O NAME OF THE CHAPTER/TOPICS SUGGESTIVE ACTIVITIES		
1	CHAPTER-3 Metals and Non- metals: Basic Metallurgical processes; Corrosion and its prevention	Create a flow chart representing extraction techniques for different metals	
2	CHAPTER - 4 Carbon and its Compounds: Nomenclature of carbon compounds containing functional groups (halogens, alcohol, ketones, aldehydes, alkanes and alkynes), difference between saturated hydro carbons and unsaturated hydrocarbons.	On the basis of chemical properties of alcohols and carboxylic acids investigate any 5 uses each of them in daily life	
	Chemical properties of carbon compounds (combustion, oxidation,	Search the method used by industries for preparation of soap	
3	addition and substitution reaction). Ethanol and Ethanoic acid (only	Find out the salts that makes the water hard	

^{***} These chapters will be assessed for internal assessment only and not to be assessed in board examination.