			BCM SCHOOL			
A Sr. Sec School Affiliated to CBSE,New Delhi						
Class :- 1	Annual Academic Calendar   Class :- IX Subject :PHYSICS Session :- 2020-2021					
	BOOK :TEXT BOOK OF S	,		56551011 - 2020-2021		
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MONTH	TOPIC	LEARNING OUTCOMES	SOURCE/RESOURCES	SUGGESTED ACTIVITIES		
	INTRODUCTION:	The learners would be able	https://www.youtube.com/watch?v=pWZIICXw3Ng	Classify any five pure substances and mixtures around you		
	Pure Substances, Elements,	*To understand pure substances,elements,mixtures and compounds.	LINK 2			
April	mixtures and compounds Definations with examples	*To differentiate between elements, mixtures and	https://www.youtube.com/watch?v=NV_JkEmuVJc&t=2s	Compare the properties of pure substances and mixtures.		
	Mixtures :Types of mixtures	*To differentiate between	LINK 3			
	Homogeneous mixtures and hetrogeneous mixture.	homogeneous and hetrogeneous mixture with day to day life activities.	https://www.youtube.com/watch?v=msSclkLW4Lk	Prepare the mixture of sugar in water,sa in water,sand in water,chalk powder in water and classify them as homogeneou and hetrogeneous mixtures.		
			LINK 4			
	Differences between them and examples of both.	To understand that mixtures are very important in our daily life.	https://www.youtube.com/watch?v=dW1Vn6cbTRE LINK 5			
	Solutions:The components of Solution:- Solute and Solvent		https://www.youtube.com/watch?v=SaNZAyqOeT0	Dissolve different solutes in solvent and compare their solubilities.		
		*To calculate the mass percentage of solutions. *To differentiate between	LINK-6			
			https://www.youtube.com/watch?v=urcxDUJIoyI			

	Types of solution: Saturated	To understand the significance		
	Solution, Unsaturated	of saturated	https://www.youtube.com/channel/UCTB Mn10B2ZL3RUn	
	Solution and	solution, unsaturated solution	PteVKqA	Make a saturated solution ,
			LINK 8	unsaturated solution and
			https://www.youtube.com/watch?v=qcpiDBya_Nw_	observe the changes in between them.
	CHAPTER 2 IS MATTER			
	AROUND US PURE			
			LINK 1	
	True solution: Defination,			
	Examples of True Solution,			
	Properties of true of			
	solution	To understand the meaning of		
	501011011	true solution	https://www.youtube.com/watch?v= 4dA2-WcS4	
		To realize the impotance of		
		true solutions in our day to day		Make an activity based short video to
		life.	LINK 2	prepare a true solution
			https://www.youtube.com/watch?v=w4BU_gg-R9q	
	Suspension solution			
	Definations with examples,			
MAY	Properties of Suspension	*To understand the properties		
	solution	of suspension solution	LINK 3	perpare suspension solution
		*Explain Tyndall effect with		
		examples from day to day life.	https://www.youtube.com/watch?v=LkUs4qZ9BRo&t=36s	and observe its properties.
		*Apply their knowledge in daily		
		life.	LINK 4	
			https://www.youtube.com/watch?v=8Xcpq6e8pBY&t=6s	
			LINK 5	
	Colloidal solutions : Define	*Identify the various types of		compare the examples of various types of
	with examples.	colloidal solutions	https://www.youtube.com/watch?v=JB_9ZbUoEFE	colloids.
	Properties of colloidal			
	solutions.		LINK 6	
			https://www.youtube.com/watch?v=w4BU_gg-r9Q LINK 7	

	Difference between true solution,colloidal and suspension solution.	To compare the properties of true solution, suspension and colloidal solution.	https://www.youtube.com/watch?v=a4GF5bcMuMs	Prepare all the three types of solutions and classify them on the basis of their properties.
			LINK 8	
			https://www.youtube.com/watch?v=XEAiLm2zuvc	
JUNE			SUMMER HOLIDAYS	
	CHAPTER 2 IS MATTER			
	AROUND US PURE	The Students would be able		
		*To understad the role of each		
		technique.		
	Separating the components of mixture by chemical method: evaporation	*To analyze them on the basis of principle involved in each technique.	LINK 1	
			https://www.youtube.com/watch?v=tQdvPTPIU1M	Compare various types of examples of evaporation from your daily life.
		*To use their knowledge in day		
		to day life activities		
JULY		To understand the actual		
		method of evaporation.	LINK 2	
			https://www.youtube.com/watch?v=hSLZJ-P3VBU	
	Centrifugation,seperating funnel			
	method, sublimation, chrom	*To understand the principle		
	atography.	involved in these techniques.	LINK 3	
		*To appreciate the role of each		oberve the various applicaions of
		technique in our day to day life		centrifugation in dairy farm, kitchen and in
	Principle ,procedure	activities.	https://www.youtube.com/watch?v=9u4azf206T0	labs.
	Applications		LINK 4	
			LINK 4 ps://www.youtube.com/watch?v=ncr-9iMEzwU	
	Distillation method,		ps://www.youtube.com/watch?v=ncr-9iMEzw0 LINK 5	
		*To separate two miscible liquids from each other	https://www.youtube.com/watch?v=UmhYur7mtcw	Try to seperate any two missicible liquids from each other.

		* To differentiate between		
	Applications	physcial and chemical changes	LINK 6	
	Physical and chemical changes		https://www.youtube.com/watch?v=vYncgJfo72E	Classify any five physical and chemical changes around you.
	CHAPTER 3 ATOMS AND MOLECULES			
ept	HALF YEARLY EXAM			
			LINK 1	
	laws of chemical combination,law of constant prportion	*students will able to differentiate between two laws	https://youtu.be/pEIQ93tQ-yo	Observe mass of reactant and mass of product is equal during chemical reaction
			LINK 2	
	Atom, atomic size,modern symbols	*students will able to understand formation of atom.	https://youtu.be/l1VXM_b2KFY	
		*critical thinking		
			LINK 3	
Oct	Atomic massMolecule,molecule of elements and compound	*students will able to understand difference between atom and molecule.	https://youtu.be/KuyB-445gQM	draw structure of compounds by using balls and iron stick
		*students will understand how to make chemical formula of copound		
	Ion,Chemical formula,		LINK 4,5	
	molecular mass,formula unit mass	* students will enable to calculate M.M and F.U.M	https://youtu.be/FcIVPVLt2L4	
			https://youtu.be/tmDmBqCrhNY	
	mole concept	*conceptual understanding * to enable the students to		
		solve numericals	https://youtu.be/4q2elWPfB6A	

СНАРТ	ER 4 STRUCTURE OF			
АТОМ			LINK 1	
introdu	ction atomic			
structu	re,thomson's model	* students enable to draw		Compare thomson model with water
of atom	ı	different structure of atom	https://youtu.be/ILwnACfo7hY	melon
			LINK 2,3	
atom,d	ford's model of an rawbacks,Bohr's of atom,neutron	* students will able to differentiate different theories		
			https://youtu.be/1EdTw4I6L0U	
v			https://youtu.be/fm2C0ovz-3M	
			LINK 4	
how are	e electron	* students will find valency		
distribu	ited in different	from electronic configuration.		
orbits(s	hells),			
valency	,atomic number and			
mass nu	umber isotopes and			
isobars			https://youtu.be/eMY_tRR1Hls	
		*able to learn atomic mass and atomic number		
			LINK 5	
		*to enable the students to		
		learn isobars and isotopes	https://youtu.be/qgJW1g0nCxQ	uses of isobars in daily life

	DELETED CHAPTERS			
MONTH	TOPIC	LEARNING OUTCOMES	SUGGESTED ACTIVITIES	
	*****CHAPTER 1 MATTER IN OUR SURROUNDINGS	*. Define matter with examples from day today life and state the composition of Matter		
	Chapter 1	*. Analyze the characteristics of the particles of matter applicable in day today life activities	Identify various types of matter around you and classify them on the basis of their properties.	
Aug	Matter in our surroundings Introduction Matter: Define : examples,characterstics of matter.	The students will be able to Evaluate the conditions for the inter conversion of various state of matters. * Explain related terms:- Melting, Freezing, Boiling, Condensation and sublimation.	Measure the temperature of water and observe the change in water on keeping it in refrigerator and on boiling	
	Interconversion of various states of matter		Keep the napthalene balls in clothes and observe the change after sometime.	
	Latent heat of fusion and latent heat of vaporisation	*Apply the knowledge of latent heat ( Ice, Steam) in day today life activities.	Heat the water and see the change in temperature of it.	
	Evaporation: Define,examples Factors affecting evaporation	The Students would Ibe able to:- *Describe evaporation .*.Analyse the difference between evaporation and boiling . *.Interpret the factors affecting evaporation and appreciate the role of evaporation in daily life.		
	*** The	ese chapters will be assessed for	internal assessment only and not to be assessed in board examination.	