KIDS WORLD SCHOOL SESSION - 2024 -25

ANNUAL CURRICULUM PLANNER SUBJECT - CHEMISTRY

CLASS - X

MONTH	NAME OF THE LESSON	METHODOLOGY	LEARNING OBJECTIVES		LEARNING OUTCOMES	MODE OF ASSESSMENT+ACTIVITY
			KNOWLEDGE / CONTENTBASED	APPLICATION BASED		
APRIL	Chapter - 1	1. Lecture-based learning	1.Balanced chemical equations	1.To understand	1. To be able to balance the chemical equations.	Assessment of learning: 1. Long/ short question
01/04/2024- 26/04/2024	Chemical reactions and equations	2.Technology-based learning 3.Differentiated Instruction 4.Experimental learning 5. Demonstration 6. Videos	2. Types of chemical reactions 3. Exothermic and endothermic Reactions 4. Precipitation reaction 5. Oxidation and reduction Reaction	and predict the product of the reactions. 2.To understand the importance of decomposition reactions in metal industries. 3. To be able to tell some	 2.To be able to identify types of chemical reactions. 3.Able to classify oxidation and reduction reactions. 4.To be able to tell about redox reactions. 5. To be able to identify and categorize exothermic and endothermic reactions. 	answers 2. Fill in the blanks 3. One word/MCQ 4. Match the following 5. Case study-based questions. Assessment as Learning: Performing experiments 1. Burning of
			6. Redox reaction	oxidation and reduction reactions, exothermic and endothermic reaction, that are observe in day to day life.		i) Action of water on quicklime ii) Iron nail is kept in coppe sulphate solution and classify as combination, decomposition, displacement and double displacement reaction.

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APRIL						Assessment of learning:
JUNE AND	Chapter – 2	1. Lecture-based	Definitions	1.To understand		1. Long/ short question
JULY		learning			1.To be able to identify	answers.
	Acids, Bases and	8	1.General properties	real life.	natural	2. Fill in the blanks
27/07/2024-	Salts	2. Technology-based	Frequency	To be able to	and	3. One word/ MCQ
31/07/2024		learning	2. Examples and uses	observe the action	man-made indicators, strong	,
			1	of indicators.	and	5. Assertion Reasoning
		3. Differentiated	3. Concept of pH scale		weak acids and bases,	Questions
		instruction	1 1	2.To be able to tell	acidic, basic	6. Case study based questions.
			4. Preparation and uses of	about neutralization	and neutral salts.	-
		4. Experimental	Sodium Hydroxide,	reaction.		Assessment as learning:
		learning	Bleaching		2.To be able to identify	Performing Experiments
			Powder, Baking soda,	3. Sustainable utility	acidic and	
		5. Demonstration	Washing soda and Plaster	of by- products	basic reactions and suggest	1. Finding the pH of the
			of Paris	obtained in	the	following samples by using
		6. Videos		industries/		pH paper/universal indicator
				factories.	stomach acidity, insect bite	such as turmeric, vinegar.
					etc.	Testing the pH values of
						solutions like saliva, lemon
					3.Relate the processes and	juice, tap water.
					phenomena with causes and	
					effects such as tooth decay	
					with pH of saliva.	2. Studying the properties of
					4 4	acids and bases (HCl and
					4. Appreciate the	NaOH) On the basis of the
					importance of pH in day-to-	reactions with:
					day life.	a) Litmus solution (blue/red)b) Natural indicator like
					5. Identify the positive and	,
					negative radicals present in	turmene acid.
					salt, and use this	
					information predict a salt	
					family.	
					Identify and chemically	
					name salts correctly.	

					6.Know the importance of salts in our daily life Able to identify the chemical formula chemical name preparation and properties of baking soda washing soda and plaster of Paris	
AUGUST AND SEPTEMBE R 01/08/2024 – 10/09/2024	Chapter – 3 Metals and Non-Metals	1.Lecture-based learning 2.Technology-based learning 3.Differentiated Instruction 4.Experimental Learning 5. Demonstration 6. Videos	 Properties of metals and non-metals Reactivity series Formation and properties of ionic compounds. Basic metallurgical processes, corrosion and its prevention. 	 Observe various substances and their physical properties in order to classify them as metals and nonmetals. Summarize the properties of ionic compounds (salts). 	1. Able to differentiate between metals and nonmetals on the basis of physical and chemical properties. 2. Able to predict the product when metals and non-metals react with oxygen stream water and acid. 3. Draw inference about the reactivity of metals. 4. Able to identify major ores of some common metals. 5. To identify ways to prevent corrosion, alloy, painting, coating. 6. To be able to find ways to extract metals from their oxides. 7. To be able to analyze the properties of ionic	Assessment of learning: 1. Long/short question answers. 2. Fill in the blanks 3. One word/ MCQ 4. Match the following 5. Diagram based questions. Assessment as learning: Performing experiments Observe the action of Zn, Fe, Cu and Al metals on the following salt solutions: Unit - 1 a) ZnSO4(aq) b) CuSO4 (aq) Arranging Zn, Fe, Cu and Al (metals) in the decreasing order of reactivity based on the above result.

					compounds and able to compare it with covalent compound.	
					Revision of previous topics.	(Multidisciplinary Activity)
	REVISION OF TERM I EXAMINATION	Discussion	Able to remember the previous topic.	To learn and recall keywords.		Integrated with Marathi
	AND ACTIVITY					Assessment of learning:
						Activity – Students will make the jewellery and with the help of activity they will understand the uses and properties of metals and non metals.
NOVEMBER	Chapter – 4	1. Lecture-based	1. Covalent bonding in	1. Classification of	1.To relate different shapes	(ART INTEGRATION)
AND	Carbon and its	learning	carbon compounds.	•	of	ACTIVITY- Students will
DECEMBER	compounds	2. Technology-based	2. Versatile nature of	homologous series. 2. To be able to	molecules with day to day objects.	make a model or collage with
11/11/2024	Compounds	Learning	carbon.	predict formulate	2.To able to identify	the help of clay, ball and
_				carbon and its	saturated and unsaturated	matchstick.
15/12/2024		3. Differentiated	3. Nomenclature of carbon	versatile nature.	compounds.	
		Instruction	compounds.	3. Homologous	3.To able to draw the	Assessment of learning:
		1 Even anime antal	4 Outling the different	series.	structure of different	1 Long/showt greation
		4. Experimental Learning	4. Outline the different functional group by	4. Nomenclature of carbon compounds	isomers of hydrocarbons. 4.To able to tell the reason	1. Long/short question answers.
		Leaning	replacing	containing	behind the blackening of	2. Fill in the blanks
		5. Videos	the hydrogen atom with	functional groups	utensils.	3. One word/ MCQ
			heteroatoms.	(hydrogen alcohol		4. Match the following

6. Demonstration	ketones aldehydes	explain	5. Assertion Reasoning
	alkanes and	the reaction of carbon	Questions
	alkynes)	compounds with various	Assessment as learning:
	5. Comparison	materials, like nickel	
	between saturated	catalyst,	Performing experiments
	and unsaturated	hydrogen etc.	
	hydrocarbons.	6.To be able to identify	1. Study of the following
	6. Chemical	proper	properties of acetic acid
	properties of	usage of carbon compounds	(ethanoic acid):
	carbon compounds	on their property.	Unit -1
	(combustion,	7. Discussion on health	a) odour
	oxidation, addition	hazards on consumption of	b) Solubility in water
	and substitution	alcohol and health benefits	2. Study of the comparative
	reaction). Ethanol	of	capacity of a sample of soap
	and ethanoic acid	using saturated hydrocarbon	and detergent in soft and hard
	(properties and	(oil).	water.
	uses), soaps and	8.Correlate day-to-day life	
	detergents.	phenomenon on working	
		of soap and detergents.	
		9. Able to correlate the	
		examples of acetic acid with	
		day-to-day life.	