## CHOITHRAM SCHOOL, MANIK BAGH, INDORE

## ANNUAL CURRICULUM PLAN SESSION 2017 – 2018

CLASS: XII

**SUBJECT: CHEMISTRY** 

Month &	Theme/ Sub-theme	Learning	Objectives	Activities & Resources	<b>Expected Learning</b>	Assessment
Working		Subject Specific	Behavioural		Outcomes	
Days		(Content Based)	(Application based)			
MARCH		Students will learn to:	Students will be able to	> Volumetric Analysis KMnO <sub>4</sub>	Students will learn to	Solving numerical on
(12)	<b>SOLUTIONS:</b>	<ul> <li>Describe the</li> </ul>	<ul> <li>Dissolve</li> </ul>	vs. Mohr's Salt Solution	<ul> <li>Describe the</li> </ul>	molarity, molality
	<ul> <li>different types of</li> </ul>	formation of	samples of		formation of	,mole fraction and
	solutions;	different types	solute in a		different types of	ppm.
	•concentration of solution	of solutions	suitable solvent		solutions	
	in different units;	<ul> <li>Express</li> </ul>	keeping in view		<ul> <li>Express</li> </ul>	
	• Henry's law and Raoult's	concentration	solute solvent		concentration of	
	law;	of solution in	interactions		solution in different	
	• ideal and non-ideal	different units	<ul> <li>Choose a</li> </ul>		units	
	solutions	<ul> <li>State and</li> </ul>	suitable factor		<ul> <li>State and explain</li> </ul>	
	deviations of real solutions	explain	to enhance		Henry's law and	
	from Raoult's law;	Henry's law	solubility or		Raoult's law	
	describe colligative	and Raoult's	decrease the		<ul> <li>Understand the</li> </ul>	
	properties of solutions and correlate these with molar	law	same as per the		difference between	
	masses of the solutes;	• Understand the	need		ideal and non ideal	
	explain abnormal	difference	• Demonstrate the		solutions	
	colligative properties	between ideal	use of		• Explain the	
	exhibited by some solutes	and non ideal	concentrated		deviations of real	
	in solutions.	solutions	and dilute		solutions from	
	in solutions.	• Explain the	solutions in		Raoult's law	
		deviations of	daily life		Describe the	
		real solutions	• Apply the effect		colligative	
		from Raoult's	of addition of a		properties of	

• Do cooppressor	non volatile solute to decrease the freezing point of water or any other solvent and increase the boiling point of water or any other solvent as required.  To association of the specific entity.  To amploy trategies to eal with a situation like cuba diving, oiling at high lititudes etc.  To association of the specific entity.  To association of the solution of water or any other solvent as required.  To association of the specific entity.  To association of water or any other solvent as required.  To association of water or any other solvent as required.  To association of water or any other solvent as required.  To association of water or any other solvent as required.  To association of water or any other solvent as required.  To association of water or any other solvent as required.  To association of water or any other solvent as required.  To association of water or any other solvent as required.  To association of water or any other solvent as required.  To dissociation of water or any other solvent as required.  To dissociation of water or any other solvent as required.  To dissociation of water or any other solvent as required.  To dissociation of water or any other solvent as required.  To dissociation of water or any other solvent as required.  To dissociation of water or any other solvent as required.  To dissociation of water or any other solvent as required.  To dissociation of water or any other solvent as required.  To dissociation of water or any other solvent as required.  To dissociation of water or any other solvent as required.  To dissociation of water or any other solvent as required.  To dissociation of water or any other solvent as required.  To disociation of water or any other solvent as required.  To dissociat	• Excopression of the copression of the copressi	lutions Explain abnormal Illigative Operties and Irrelate these to Issociation or Issociation of the Issocia
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			of pressure differences on living system.  • Employ strategies to overcome the atmospheric conditions to deal with a situation like scuba diving, boiling at high altitudes etc.			
APRIL (21)	<ul> <li>p-BLOCK ELEMENTS</li> <li>periodic table and the properties with reference to p-block elements.</li> <li>15 group elements: general trends in properties, preparation of nitrogen, different allotropes of phosphorus, their prep. And properties, oxides of nitrogen and phosphorus, halides and oxoacids of phosphorus and nitrogen.</li> <li>16 group elements: general trends in</li> </ul>	SOLUTIONS & p-BLOCK ELEMENTS Students will be able to  • Know the importance of studying p-block elements and their compounds. • Recall the periodic table and the properties with reference to p-block elements. • Know 15 group elements:	<ul> <li>Apply the knowledge of various reactions like use of smoke screens.</li> <li>After studying innumerable uses of elements and compounds, they will be able to demonstrate a wide range of ideas and use elements and compounds very intelligently like using Cl<sub>2</sub> as</li> </ul>	<ul> <li>Volumetric Analysis         KMnO<sub>4</sub> vs. Oxalic Acid         Solution</li> <li>Activity 1: to be done         in the lab reaction of         Cu<sup>2+</sup> and NH<sub>4</sub>OH to         form a coloured complex         .         Tests for ammonia:         Activity 2: to be done         in the lab reaction of         Nesseler's reagent and         NH<sub>3</sub> to give a brown         precipitate         Laboratory preparation         of nitric acid and its         manufacture along with         its physical and chemical         properties. A few         properties will be</li> </ul>	Studentswill learn to:  Describe the formation of different types of solutions  Express concentration of solution in different units  State and explain Henry's law and Raoult's law  Understand the difference between ideal and non ideal solutions  Explain the deviations of real solutions from Raoult's law  Describe the	Questions from NCERT text book on p-block elements.

properties, preparation of oxygen, different allotropes of oxygen their prep. and properties, oxides of sulphur, halides and oxoacids of sulphur and contact process.  17 group elements: general trends in properties, oxoacids of F, Cl, Br and I. Acidic behavior of the same  18 group elements general trends in properties	general trends in properties, preparation of nitrogen, different allotropes of phosphorus, the ir prep. And properties, oxides of nitrogen and phosphorus, halides and oxoacids of phosphorus and nitrogen.  • Know 16 group elements: general trends in properties, preparation of oxygen, different allotropes of oxygen their prep. and properties, oxides of sulphur, halides and oxoacids of sulphur and contact process.	bleaching agent at home, using aqua regia as cleaning agent for gold ornaments etc.  • Appreciate the use of various noble gases in various fields like Ne in fluorescent bulbs, He in oxygen cylinder etc.	delivered through chalk and board and a few more through activities.  • Activity 3: testing HNO <sub>3</sub> with blue litmus, decomposing carbonates to release CO <sub>2</sub>	colligative properties of solutions  • Explain abnormal colligative properties and correlate these to association or dissociation of the specific entity.	
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and f-block elements and	structures and uses	environmental	elements and now	
the general horizontal and	of some important	protection and	they can reason the	
group trends in them;	compounds such	judicial use of	abnormalities,	
	as $K_2Cr_2O_7$ and	transition metal	similarities and	
TO BE CONTINUED IN	KMnO <sub>4</sub> ;	compounds will be	variation in	
THE NEXT MONTH	<ul> <li>understand the</li> </ul>	developed.	properties of the	
	general	• They will be able to	elements.	
	characteristics of	apply the knowledge	Students can write	
	the $d$ - and $f$ -block	of use of various	various reactions	
	elements and the	transition metals in	related to	
	general horizontal	medicine, biological	preparation &	
	and group trends	phenomena, storage,	properties of	
	in them;	comfortable living,	$K_2Cr_2O_7$ and	
	• describe the	industries and	KMnO <sub>4</sub> and deduce	
	properties of the <i>f</i> -	agriculture.	their structure.	
	block elements		Students can	
	and give a		appreciate and	
	comparative		justify the cause of	
	account of the		using alloys and	
	lanthanoids and		transition metal	
	actinoids with		compounds in	
	respect to their		various fields in	
	electronic		their surroundings.	
	configurations,		Students can	
	oxidation states		identify transition	
	and chemical		elements and their	
	behaviour.		compounds on the	
	condition.		basis of their	
			characteristics.	
			• Students can	
			extend their	
			knowledge of using	
			the transition	
			metals & their	
			compounds	

					judiciously, to create awareness about the same.	
July (24)	CONTINUED  d & f BLOCK ELEMENTS COORDINATION CHEMISTRY • properties of the f-block elements and comparative account of the lanthanoids and actinoids with respect to their electronic configurations, oxidation states and chemical behaviour.	:Students will be able to  • Understand and appreciate the postulates of Werner's theory of coordination compounds;  • know the meaning of the terms: coordination entity, central atom/ ion, ligand,	Students will be able to develop insights into the functioning ofvital components of biological systems. They will know that Chlorophyll, hemoglobin and vitamin B12 are coordination compounds of magnesium, iron and cobalt respectively. On the same line they will	<ul> <li>Qualitative Inorganic analysis</li> <li>Students will be involved in problem solving (a set of questions to be discussed in class) based on the above aspects for better understanding of the introductory part of the unit.</li> </ul>	• Students will learn to write structure and IUPAC names of coordination compounds and they can explain about all terms used in coordination chemistry for in depth study of complexes.	NCERT questions from the Coordination compounds
	•postulates of Werner's theory of coordination compounds; • coordination entity, central atom/ ion, ligand, coordination number, coordination sphere, coordination polyhedron, oxidation number, homoleptic and heteroleptic; • rules of nomenclature of coordination compounds; • formulae and names of mononuclear coordination compounds; • different types of isomerism in coordination	coordination number, coordination sphere, coordination polyhedron, oxidation number, homoleptic and heteroleptic, denticity; • learn the rules of nomenclature of coordination compounds; • write the formulas and names of mononuclear coordination compounds;	the same line they will be able <b>to apply</b> the understanding of coordination linkages& entities to the existence & formation of various compounds of industrial, agricultural, medicinal and biological importance.  • Students intending to pursue further studies in the field of science will be able <b>to correlate</b> these concepts with and reason effectively about the cause and effect		<ul> <li>They can identify various coordination compounds and can predict some of their properties after carrying out complete analysis of the composition, bonding, structure, geometry and related features of the compounds.</li> <li>They can apply VBT and CFT</li> </ul>	

compounds; • define	different relationship in a	to explain the
	of isomerism variety of	bonding and
	rdination metallurgical	related features
	<u>G</u>	in coordination
r	ounds; processes, industrial	
	stand the catalysis and	entities.
	of bonding analyses.	• They have
	rdination • They will be able to	learnt to
	ounds in <b>sensitize people</b>	describe the
	of the about thoughtful	structural
	ce Bond and use of chemical	features of the
day life. Cryst.	d Field resources in context	organometallic
theori	es; of their advantages	compounds and
• learn	he stability & disadvantages,	their
of coo	rdination availability and	application in
comp	ounds; scarcity.	biological,
	ciate the • They will get aware	medicinal,
	tance and of environmental	industrial and
	ations of hazards of using	agricultural
	nation some of the	fields.
	ounds in our coordination	They have
	day life. compounds so as to	learnt to
day to	further sensitize	differentiate
	people about the	between useful
	same.	and harmful
	• Students will	effects of using
		coordination
	appreciate the	
	formation of gem	compounds and
	stones as	can create
	application of	awareness in
	formation of	people about
	coordination	the same.
	compounds.	
	They will develop their	
	analytical skills while	
	undergoing in depth	

			study of structure,				
			bonding, isomerism				
			and properties of				
			coordination				
			compounds.				
August	HALOALKANES AND	Students will be able to	Students will be able to	•	Qualitative Inorganic	IUPAC nomenclature of	Practice questions:
(21)	HALOARENES:	• name haloalkanes	• name haloalkanes and	•	analysis	halogen containing	Conversions
(21)	• Nomenclature of	and haloarenes	haloarenes according	_	draw the resonating	compounds and their	Conversions
	haloalkanes and haloarenes	according to the	to the IUPAC system	•	structure of haloarenes	classification	
	according to the IUPAC	IUPAC system of	of		structure of haroarenes	<ul><li>about various reagents</li></ul>	
	system	nomenclature from	nomenclature from			used in preparation of	
	• reactions involved in the	their given	their given structures;			fluoro, chloro, bromo, iodo	
	preparation of haloalkanes	structures;	• describe the			alkanes and in aryl halides.	
	and	• describe the	reactions involved in			<ul><li>Physical and chemical</li></ul>	
	haloarenes .	reactions involved in	the preparation of			properties of haloalkanes,	
	• correlate the structures of	the preparation of	haloalkanes and			haloarenes and	
	haloalkanes and haloarenes	haloalkanes and	haloarenes and			electrophilic substitution	
		haloarenes and	understand various			_	
	with various types of	understand various				reaction given by haloarenes.	
	reactions;		reactions that they			<ul> <li>maroarenes.</li> <li>mechanism of SN<sup>1</sup> &amp;</li> </ul>	
	• stereochemistry;	reactions that they	undergo;				
	•applications of organo-	undergo;	• correlate the			$SN^2$ reaction and reactivity	
	metallic compounds;	• correlate the	structures of			of primary, secondary and	
	• environmental effects of	structures of	haloalkanes and			tertiary alkyl halides.	
	polyhalogen.	haloalkanes and	haloarenes with			• Stereo chemical aspects	
		haloarenes with	various types of			of nucleophilic substitution	
	ALCOHOLS, PHENOLS	various types of	reactions;			reaction i.e. inversion,	
	AND ETHERS:	reactions;	• use stereochemistry			retention and racemisation	
	Nomenclature of alcohols,	• use stereochemistry	as a tool for			of configuration.	
	phenols and ethers	as a tool for	understanding the			• to convert haloalkanes	
	according to the IUPAC	understanding the	reaction			to alkanes and alkenes	
	system	reaction	mechanism;			• about the ambident	
	reactions involved in the	mechanism;	<ul> <li>highlight the uses</li> </ul>			nuleophiles and the	
	preparation of alcohols	<ul> <li>highlight the uses</li> </ul>	and environmental			products obtained on	
	from	and environmental	effects of polyhalogen			reaction with haloalkanes.	
	(i) alkenes (ii) aldehydes,	effects of	compounds.			•about beneficial and	

	ketones and carboxylic acids;  TO BE CONTINUED IN THE NEXT MONTH	polyhalogen compounds.			hazardous effects of poly halogen compound.	
September (20)	CONTINUED  ALCOHOLS, PHENOLS AND ETHERS:  • reactions involved in the preparation of phenols from  (i) haloarenes (ii) benzene sulphonic acids (iii) diazonium salts and (iv) cumene;  • reactions for preparation of ethers from (i) alcohols and (ii) alkyl halides and sodium alkoxides/aryloxides;  • physical properties of alcohols, phenols and ethers with their structures;  • chemical reactions of the three classes of compounds on the basis of their functional groups.	Students will be able to  Name Alcohol, phenol and ethers according to the IUPAC system of nomenclature from their given structures  describe the reactions involved in the preparation of alcohols phenol and ether  correlate physical properties of alcohols, phenols and ethers with their structures  Understand	<ul> <li>Students will learn the use of phenol as an antiseptic in soaps, lotion and ointments and for treating wounds caused by the bite of mad dogs as a disinfectant, fungicide and bactericide, use of alcohol as a fuel, as an antiseptic in hospitals, as a preservative for biological specimen.</li> <li>Students will appreciate the use of phenol in manufacture of drugs like Aspirin, Salol, Phenacitin, use</li> </ul>	Detection Of alcoholic and phenolic groups in the given organic compound.	The students will learn  To name alcohols, phenols and ethers according to the IUPAC system of nomenclature  The reactions involved in the preparation of alcohols from  alkenes (ii) aldehydes, ketones and carboxylic acids  phenols from  (i) haloarenes (ii) benzene sulphonic acids (iii) diazonium salts and (iv)cumene  ethers from  (i) alcohols (ii) alkyl halides and sodium alkoxides/aryloxide s  Difference in	Questions on resonance and organic conversions
	ALDEHYDES,	chemical	of <b>diethyl ether</b>		physical properties	

KETONES AND	reactions of	as a refrigerant	on the basis of
CARBOXYLIC ACIDS,	the three	and an	intermolecular
AMINES, POLYMERS	classes of	inhalation	forces.
common and IUPAC	compounds on	anaesthetic in	Chemical
names of aldehydes,	• the basis of	surgery as it	properties of
ketones and	their	produces	alcohol, phenol and
carboxylic acids;	functional	unconsciousnes	ethers and
• structures of the	groups.	s without	corresponding
compounds containing	Highlight the	affecting lungs	chemical equations.
functional groups namely	uses of	and heart, use of	Electrophilic
carbonyl and carboxyl	alcohol,	methanol in the	substitution
groups;	phenol and	preparation of	reaction of phenol
• important methods	ether	dyes, medicines	and aromatic
of preparation and		and perfumes,	ethers.
reactions of these classes		use of ethanol	• Uses of alcohol,
of compounds;		in manufacture	phenol and ethers
•physical properties and		of beverages.	and harmful effects
chemical reactions of		• Students will be	of drinking alcohol
aldehydes,		sensitized about	
ketones and carboxylic		the harmful	
acids, with their structures;		effects of	
• mechanism of a few		consumption of	
selected reactions of		ethanol on	
aldehydes		human health	
and ketones;		and will be	
• factors affecting the		aware how	
acidity of carboxylic		consumption of	
acids and their reactions		alcohol leads to	
• uses of aldehydes,		addiction and	
ketones and carboxylic		lack of control	
acids.		and	
Method of preparation of		coordination in	
amines and their		the body	
properties, distinguishing		which may	
tests for primary,		result in	

	secondary and tertiary amines. Classification of polymers and their preparation and properties.  ELECTROCHEMISTRY  electrochemical cell and difference between galvanic and electrolytic cells  TO BE CONTINUED IN THE NEXT MONTH		accidents.  Students will analyse ill effects of drinking alcohol on society.  Students will be familiarized about denaturation of ethanol to make it unfit for drinking.  Students will recognize the drunken person by performing acidified K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> solution test.			
October (08)	ELECTROCHEMISTRY & CHEMICAL KINETICS • Nernst equation for calculating the emf of galvanic cell and standard potential of the cell • relation between standard potential of the cell, Gibbs energy of cell reaction and its equilibrium constant • resistivity, conductivity	Students will be able to learn:  • To describe an electrochemica I cell and differentiate between galvanic and electrolytic cells • to apply Nernst equation for	<ul> <li>Students will be able to</li> <li>develop insights into the functioning of cells and batteries in everday life.</li> <li>They will develop an insight to enhance the efficiency of the cells and</li> </ul>	Plotting graphs between molar conductance and concentration, plotting graph for 1 and 2 order reactions conc. vs time	Students will learn :  To describe an electrochemical cell and differentiate between galvanic and electrolytic cells;  to apply Nernst equation for calculating the emf of galvanic cell and define standard potential of the	Solving numerical on Nernst equation and half life

(k) and molar conductivity m) of ionic solutions  • difference between ionic (electrolytic) and electronic conductivity;  • measurement of conductivity of electrolytic solutions and calculation of their molar conductivity and molar conductivity and molar conductivity and molar conductivity at zero concentration or infinite dilution)  • Kohlrausch law and its applications  • quantitative aspects of electrolysis  • construction of some primary and secondary batteriesand fuel cells  • corrosion as an electrochemical process.  (k) and molar conductivity emf of emf of galvanic cell and define standard potential of the cell.  • derive relation between standard potential of the cell, Gibbs energy of cell reaction and its equilibrium constant  • define resistivity, conductivity and molar conductivity and molar conductivity of ionic solutions  • other relation between standard potential of the cell, Gibbs energy of cell reaction and its equilibrium constant  • define resistivity, conductivity and molar conductivity of ionic solutions and calculation of their molar conductivity	cell;  • to derive relation between standard potential of the cell, Gibbs energy of cell reaction and its equilibrium constant;  • to define resistivity (r), conductivity (k) and molar conductivity (L m) of ionic solutions;  • To describe the method for measurement of conductivity of  • Students will be able to develop insights into the functioning of cells and batteries in everday life.  • They will develop an insight to enhance the efficiency of the cells and batteries.
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(21)	ISOLATION	to:	:		metallurgical operations)	explain the terms minerals,	video and NCERT
	(METALLURGY)&	explain the terms	<ul> <li>of biomolec</li> </ul>	ules in		ores, concentration,	exercise questions
	<b>BIOMOLECULES:</b>	minerals, ores,	biosystem			benefaction,	
	• minerals, ores,	concentration,	<ul> <li>relate the</li> </ul>			calcination, roasting,	
	concentration, benefaction,	benefaction,	metallurgica	ા		refining, etc.;	
	calcination, roasting,	calcination, roasting,	operations g	oing on		• understand the principles	
	refining, etc.;	refining, etc.;	in the factor	ies to		of oxidation and reduction	
	• principles of oxidation	<ul> <li>understand the</li> </ul>	the appreci	ate the		as applied to the extraction	
	and reduction as applied	principles of	role obtainii	ng of		procedures;	
	to the extraction	oxidation and	metals.			• apply the thermodynamic	
	procedures;	reduction as applied to	<ul> <li>Understand</li> </ul>	the		concepts like that of Gibbs	
	• application of	the extraction	importance	of		energy and entropy to the	
	thermodynamic concepts	procedures;	resources ar	id the		principles of extraction of	
	like that of Gibbs energy	• apply the	elaborative			Al, Cu, Zn and Fe.	
	and entropy to the	thermodynamic	procedures			Understand the process of	
	principles of extraction of	concepts like that of	takes to obta	ain a		refining.	
	Al, Cu, Zn and Fe	Gibbs energy and	piece of me	al.		• define the biomolecules	
	<b>BIOMOLECULES:</b>	entropy to the				like carbohydrates,	
	• define the biomolecules	principles of				proteins and nucleic	
	like carbohydrates,	extraction of Al, Cu,				acids;	
	proteins and nucleic acids;	Zn and Fe.				• classify carbohydrates,	
	• classification of	Understand the				proteins, nucleic acids	
	carbohydrates, proteins,	process of refining.				and vitamins on the	
	nucleic acids and vitamins	• define the				basis of their structures	
	on the basis of their	biomolecules like				• explain the difference	
	structures	carbohydrates,				between DNA and	
	• explain the difference	proteins and nucleic				RNA	
	between DNA and RNA.	acids;				of biomolecules in	
		• classify				biosystem.	
		carbohydrates,				Understand the	
		proteins, nucleic acids				importance of resources	
		and vitamins on the				and the elaborative	
		basis of their				procedures that it takes	
		structures				to obtain a piece of	
		• explain the				metal.	

December	SOLID STATE &	difference between DNA and RNA;  Students will learn to:	Students will learn:	Video presentation	Students will learn to:	NCERT text
(20)	CHEMISTRY IN EVERYDAY LIFE:  • general characteristics of solid state;  • amorphous and crystalline solids;  • classification of crystalline solids on the basis of the nature of binding forces;  • crystal lattice and unit cell;  •close packing of particles;  • types of voids and close packed structures;  • calculate the packing efficiency of different types of cubic unit cells;  • density of a substance with its unit cell properties;  • imperfections in solids and their effect on properties;  • electrical and magnetic properties of solids and their structure.  the importance of Chemistry in daily life;  • the basis of classification	describe general characteristics of solid state; • distinguish between amorphous and crystalline solids; • classify crystalline solids on the basis of the nature of binding forces; • define crystal lattice and unit cell; • explain close packing of particles; • describe different types of voids and close packed structures; • calculate the packing efficiency of different types of cubic unit cells; • correlate the density of a substance with its unit cell properties; imperfections in solids and their effect on properties; • electrical and magnetic properties of	<ul> <li>The characters of imperfect solids and will then be able to interpret the type of property that it will exhibit.</li> <li>To visualize the magnetic and electrical properties of substances in daily life.</li> <li>visualise the importance of Chemistry in daily life;</li> <li>sweetening agents and food preservatives and will be able to use suitable sweeteners and preservatives in daily life</li> <li>to become more aware about various products being</li> </ul>	video presentation	describe general characteristics of solid state; • distinguish between amorphous and crystalline solids; • classify crystalline solids on the basis of the nature of binding forces; • define crystal lattice and unit cell; • explain close packing of particles; • describe different types of voids and close packed structures; • calculate the packing efficiency of different types of cubic unit cells; • correlate the density of a substance with its unit cell properties; imperfections in solids and their effect on properties; • electrical and magnetic properties of solids and their structure. visualise the importance of	book questions from the exercise and within the text.  Numericals from NCERT text book on the calculation of density and formula determination

of drugs;	solids and their	used in daily	Chemistry in daily life;
<b>U</b> ,		•	
drug-target interactio		life like	• explain the term
enzymes and receptors;		antiseptics and	'chemotherapy'; • describe
• drugs function in the	importance of	disinfectants,	the basis of classification
body;	Chemistry in daily	antibiotics,	of drugs;
• artificial sweetening	life;	antipyretics etc.	• explain drug-target
agents and food	• explain the term		interaction of enzymes and
preservatives;	chemotherapy		receptors;
• chemistry of cleansing	• describe the basis of		• explain how various
agents.	classification		types of drugs function in
	of drugs		the body;
	<ul> <li>explain drug-target</li> </ul>		• know about artificial
	interaction of enzymes		sweetening agents and
	and receptors;		food preservatives;
	<ul> <li>explain how various</li> </ul>		• discuss the chemistry of
	types of drugs		cleansing agents.
	function in the body;		The characters of
	<ul> <li>know about artificial</li> </ul>		imperfect solids and will
	sweetening agents and		then be able to interpret
	food preservatives;		the type of property that it
	discuss the		will exhibit.
	chemistry of cleansing		To visualize the magnetic
	agents.		and electrical properties of
			substances in daily life.
			visualise the importance of
			Chemistry in daily life;
			sweetening agents and
			food preservatives and will
			be able to use suitable
			sweeteners and
			preservatives in daily life
			• to become more aware
			about various products
			being used in daily life like
			antiseptics and
			antisopties and

		disinfectants, antibiotics, antipyretics etc.	