Pakistan Urdu School- Kingdom of Bahrain

Curriculum Implementation Plan for Chemistry Grade XI

No.	Month/Week	Starting Date	Topics from Textbook or Others (Specify Unit Titles and Numbers)	National Curriculum References (Competency, Standards, Themes)	Total Periods
1			Unit 1- Stoichiometry	Students will display sense of curiosity and understand process of scientific investigation. They will be able to identify problems	8
	April	23rd	1.1 Moles and Avogadroes number		
	April	26th	1.2 Excess and Limiting Reagents		
	May	2nd	1.3Theoretical and actual yield as percentage		
2			Unit 5-Liquids	Students will describe and explain common properties interaction between matter and energy their transformation and application in biological chemical and physical systems	8
	May	6th	2.1 Kinetic molecular theory of liquids		
	May	7th	2.2 Diplo dipole forces and London dispersion forces		
	May	8th	2.3 Hydrogen Bonding		
	May	9th	2.4 physical properties of liquids		
	May	20th	2.5 Energetics of phase changes		
	May	21st	2.6 Liquid Crystal and their uses in daily life		
3			Unit 6-Solids		
	May	22nd	3.1 Kinetic molecular theory of solid	Students will demonstrate an understanding of impact and technology on society use science and technology to identify problems and creatively address them in	
	May	23rd	3.2 properties of solid		
	May	24th	3.3 Types of solids		

	May	27th	3.4 Properties of crystalline solids	personal social and professional lives .they will explain how scientists decide what constitutes scientific knowledge how science is related to other ways of knowing and how people have contributed to and influenced developments in science	
	May	28th	3.5 Allotropy		
	May	29th	3.6 Crystal Lattice		
	May	30	3.7 Factors affecting shape of ionic solid		11
	June	3rd	3.8 Comparison between and ionic crystal and covalent crystal		
	June	4th	3.9 Comparison between molecular solid and metallic solid		
	June	5th	3.10 Low density and high heat of fusion of ice		
	June	6th	3.11 Hygroscopic salts		
4			Unit 2- Atomic structure	Students will understand the process of scientific investigation. They will be able to identify problems, and conduct experiments and communicate their findings using a variety of traditional and conventional tools including technology	
	August	28th	4.1 Discharge tube experiment		
	August	29th	4.2 Positive rays and discovery of neutrons		
	August	30th	4.3 Discovery of nucleus		
	September	23rd	4.4 Bohrs atomic model and its application		10
	September	25th	4.5 Hydrogen spectrum		
	September	26th	4.6 Planks Quantum theory		
	september	27th	4.7 Xrays and its uses		
	october	1st	4.8 The quantum numbers		
	october	2nd	4.9 Electronic configuration		

5			Unit 8-Acid and bases	Students will display sense of curiosity and wonder about the natural world and demonstration increasing awareness that this has lead to new developments in science and technology	9
	October	3rd	5.1 Acid base and amphoteric subbstances		
	October	4th	5.2 Bronsted concept of acid and base		
	October	7th	5.3 Strength of acid and bases		
	October	8th	5.4 Strong and wek acid		
	October	9th	5.5 Strong and weak bases		
	October	10th	5.6 Lewis definition of acid and bases		
	October	11th	5.7 buffer solutions and their application		
	October	14th	5.8 salt hydrolysis		
6			Unit 9- Chemical Kinetics	Students will understand the process of scientific investigation. They will be able to identify problems, and conduct experiments and communicate their findings using a variety of traditional and conventional tools including technology	6
	October	15th	6.1 Rate of reaction		
	October	17th	6.2 Collision Theory		
	October	18th	6.3 catalysis and enzymes		
7			Unit 10-Solutins	Students will display sense of curiosity and wonder about the natural world and demonstration increasing awareness that this has lead to new developments in science and technology	11
	November	1st	7.1 propeties of solutions		
	November	6th	7.2 Concentration Unit		
	November	8^{th}	7.3 R aoults Law		
	November	14th	7.4 Colligative properties of solutions		

	November	15th	7.5 Colloids		
8	November		Unit 12- Electrochemistry	Students will demonstrate an understanding of impact and technology on society use science and technology to identify problems and creatively address them in personal social and professional lives .they will explain how scientists decide what constitutes scientific knowledge how science is related to other ways of knowing and how people have contributed to and influenced developments in science	6
	November	18	8.1 Oxidation reduction concept		
	November	20	8.2 Electrochemical series		
	November	22	8.3 Types of electrochemical cells		
	November	25	8.4 Corrosion and its prevention		
9			Unit 3- Theories of Covalent bonding and shapes of molecules	Students will display sense of curiosity and understand process of scientific investigation. They will be able to identify problems	11
	December	30th	9.1 Valence bond theory		
	January	2nd	9.2 Vesper theory		
	January	6^{th}	9.3 Molecular orbital theory		
	January	9^{th}	9.4 Bond energy and bond length		
	January	13	9.5 Effect of bonding on properties of compounds		
10			Unit 4- Gases	Students will understand the process of scientific investigation. They will be able to identify problems, and conduct experiments and communicate their findings using a variety of traditional and conventional tools including technology	12
	January	20	10.1Kinetic molecular theory of gases		
	January	21	10.2Gas laws and ideal gas equations		
	January	27	10.3Daltons law of partial pressure		
	January	28	10.4 Vander waals equation		

	January	29	10.5 Ghrahams law of diffusion and effusion of gases		
	January	31	10.6 Liquation of gases		
	February	4	10.7 Fourth state of matter		
11			Unit 7- Chemical Equillibrium	Students will display sense of curiosity and understand process of scientific investigation. They will be able to identify problems	8
	February	5th	11.1 Reversible reaction and dynamic equilibrium		
	February	10	11.2 Le chatliers principle		
	February	13	11.3 Solubilty product		
	February	14	11.4 Common ion effect		
12	February		Unit 11-Thermochemistry	Students will understand the process of scientific investigation. They will be able to identify problems, and conduct experiments and communicate their findings using a variety of traditional and conventional tools including technology	10
	February	17	12.1 thermodynamics		
	February	20	12.2 Standard enthaipy changes		
	February	26	12.3 Born haber cycle		

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