

PAKISTAN INTERNATIONAL SCHOOL BURAIDAH,
AL-QASSIM. SAUDI ARABIA.



CHEMISTRY SYLLABUS

CLASS VIII (Federal)

PAKISTAN INTERNATIONAL SCHOOL, BURAI DAH
SYLLABUS BREAKUP

Class: VIII B Subject: Chemistry

Number of Teaching Weeks in First Term: (1 - 14)

Number of Teaching Weeks in Second Term: (15 - 28)

Name of Text Book: **MODEL TEXTBOOK OF CHEMISTRY (NBP)**

Week No.	Chapter No.	Day	Topic	Book Page Numbers
1	1	Day 1	Defination of Chemistry, Branches of Chemistry	06-07
		Day 2	Daily life applications of chemistry	08-09
		Day 3	Science, Technology and Engineering	10
		Day 4	Application of Science, Technology and Engineering	11-12
2		Day 1	Review Questions	13
		Day 2	Review Questions	14
		Day 3	Review Questions	14
		Day 4	Project	14
3	2	Day 1	State of Matter	16-17
		Day 2	Elements,Compounds and Mixture, Allotropies	18-19
		Day 3	Solution	19-21
		Day 4	Concenrated and Dilute Solution	22-23
4		Day 1	Colloids and Suspensions	24
		Day 2	Review Questions	25
		Day 3	Review Questions	26
		Day 4	Think Tank and Project	26
5	3	Day 1	Atomic Models, Dalton's model and Rutherford model	28-29
		Day 2	Bohr's Atomic Theory and Quantum Mechanical Model	30-31
		Day 3	SubAtomic Particles	32-33
		Day 4	Radioactivity,Relative Atomic Mass and Atomic Mass Unit, Isotopes	34-37

Week No.	Chapter No.	Day	Topic	Book Page Numbers
6		Day 1	Determination of Relative Atomic Mass	38-39
		Day 2	Cations and Anions Electronic Configuration	40-41
		Day 3	Review Questions	43
		Day 4	Review Questions	44
7	4	Day 1	Periodic Table	46-51
		Day 2	Group number and Charge on an ion	52-54
		Day 3	Periodicity of Properties, Shielding Effect, Atomic Size	55-57
		Day 4	Ionization Energy, electron Affinity and electronegativity	58-60
8		Day 1	Characteristics Properties	61-63
		Day 2	Lathanides and Actinides	64-68
		Day 3	Review Questions	69-70
		Day 4	Think Tank	71-72
9	5	Day 1	Why Do Atoms React, Chemical Bonds	74-75
		Day 2	Types Of Bonds, Ionic Bonds	76-77
		Day 3	Ionic Bonds	78-79
		Day 4	Covalent Bonds	80-81
10		Day 1	Covalent Bonds	82-83
		Day 2	Types Of Covalent Bonds on the basis of polarity	84-85
		Day 3	Intermolecular Forces	85-86
		Day 4	Nature of Bonding, Structure and Properties	87-88
11		Day 1	Nature of Bonding, Structure and Properties	88-90
		Day 2	Metallic Bonding	90-91
		Day 3	Review Questions	92-94
		Day 4	Think Tank	95

Week No.	Chapter No.	Day	Topic	Book Page Numbers
12		Day 1	Revision Chap 1	
		Day 2	Revision Chap 1	
		Day 3	Revision Chap 2	
		Day 4	Revision Chap 2	
13		Day 1	Revision Chap 3	
		Day 2	Revision Chap 3	
		Day 3	Revision Chap 4	
		Day 4	Revision Chap 4	
14		Day 1	Revision Chap 4	
		Day 2	Revision Chap 5	
		Day 3	Revision Chap 5	
		Day 4	Revision Chap 5	
15	6	Day 1	Empirical Formula and Molecular Formula	97-98
		Day 2	Molecular Mass and Formula Mass	98-99
		Day 3	Chemical Formula Name of Binary Ionic Compounds, Avogadro's Number and Mole	100-101
		Day 4	Gram Atomic Mass, Gram Molecular Mass, Gram Formula Mass	102-103
16		Day 1	Chemical Calculations	103
		Day 2	, Mole Mass Calculations	104-105
		Day 3	Mole Particles Calculations	106-107
		Day 4	Chemical Equation and Balancing	108-109
17	7	Day 1	Molecular and Structural Formula	110
		Day 2	Review Questions	111
		Day 3	Review Questions Chap 6	112
		Day 4	Review Questions Chap 6	113

Week No.	Chapter No.	Day	Topic	Book Page Numbers
18		Day 1	Oxidation And Reduction	115-116
		Day 2	Oxidation States	117-118
		Day 3	Oxidation States	119-120
		Day 4	Formula of Ionic Compound	121
19		Day 1	Oxidizing And Reducing agent	122-123
		Day 2	Corrosion And Its Prevention	124-125
		Day 3	Review Questions	126-127
		Day 4	Project	128
20	8	Day 1	Energy In Chemical Reactions	130-131
		Day 2	Enthalpy of Reaction	131-132
		Day 3	Activation Energy	132-133
		Day 4	Catalyst	133
21		Day 1	Respiration	133-134
		Day 2	Review Questions	135
		Day 3	Review Questions	135
		Day 4	Project	136
22	9	Day 1	Reversible Reactions and Dynamic Equilibrium	138-139
		Day 2	Reversible Reactions and Dynamic Equilibrium	138-139
		Day 3	Conditions For Equilibrium	140
		Day 4	Effect Of Heat on a Chemical Equilibrium System	140
23		Day 1	Effect Of Heat on a Chemical Equilibrium System	140
		Day 2	Review Questions	141
		Day 3	Review Questions	142
		Day 4	Think Tank	142

Week No.	Chapter No.	Day	Topic	Book Page Numbers
24	10	Day 1	Concept of Acids And Bases	144-145
		Day 2	Concept of Acids And Bases	145-146
		Day 3	Strength Of Acids And Bases	147-148
		Day 4	Characteristics Properties Of Acids	148
25		Day 1	Characteristics Properties Of Bases	149
		Day 2	Oxides And Hydroxides	149
		Day 3	Review Questions	150-151
		Day 4	Think Tank	152
26		Day 1	Revision Chap 6	
		Day 2	Revision Chap 6	
		Day 3	Test Chap 6	
		Day 4	Revision Chap 7	
27		Day 1	Revision Chap 7	
		Day 2	Test Chap 7	
		Day 3	Revision Chap 8	
		Day 4	Revision Chap 8	
28		Day 1	Revision Chap 9	
		Day 2	Revision Chap 9	
		Day 3	Revision Chap 10	
		Day 4	Revision Chap 10	