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

CHEMISTRY SYLLABUS

CLASS VIII (O-Level)

PAKISTAN INTERNATIONAL SCHOOL, BURAIDAH

SYLLABUS BREAKUP

Class: VIII O Level Subject: Chemistry

Number of Teaching Weeks in First Term: (1 - 14)
Number of Teaching Weeks in Second Term: (15 - 28)

Name of Text Book:Cambridge IGCSE Chemistry By Bryan Earl and Doug Wilford

Week No.	Chapter No.	Day	Topic	Book Page Numbers
1	1	Day 1	Solids, Liquids and Gases	1-2
		Day 2	Kinetic Particle theory of Matter	2-3
		Day 3	Kinetic Particle theory of Matter	3-4
		Day 4	Changes of State	4-5
2		Day 1	Effect of Temprerature and Pressure on volume of gas	6
		Day 2	Diffusion	7-8
		Day 3	Exam Style Questions	9
		Day 4	Exam Style Questions	9
3	2	Day 1	Elements	10-11
		Day 2	Atoms- the smallest particles	12
		Day 3	Molecules	13
		Day 4	Compounds	14-15
4		Day 1	Formulae	16-17
		Day 2	Mixtures	18-19
		Day 3	Inside Atoms	20-21
		Day 4	Inside Atoms	22-23
5		Day 1	Isotopes	24
		Day 2	Relative Atomic Mass	25-27
		Day 3	Exam Style Questions	29
		Day 4	Exam Style Questions	29

Week No.	Chapter No.	Day	Topic	Book Page Numbers
6	3	Day 1	Ionic Bonding	30-31
		Day 2	Ionic Bonding	32-33
		Day 3	Ionic Structures	34
		Day 4	Formulae of Ionic Substances	35
7		Day 1	Oxidation number	36
		Day 2	**Oxidation number**	37
		Day 3	**Covalent bonding**	38-39
		Day 4	**Covalent bonding**	40-42
8		Day 1	Covalent structures	43-44
		Day 2	Different forms of carbons	45-47
		Day 3	Different forms of carbons	48-49
		Day 4	Metallic Bonding	50-51
9	4	Day 1	**Exam Style Questions Chap 3**	53
		Day 2	**Exam Style Questions Chap 3**	53
		Day 3	**Relative Atomic Mass**	54
		Day 4	**Calculating Moles**	55-56
10		Day 1	Moles and Compounds	57-58
		Day 2	Moles and Solutions	59-60
		Day 3	Calculating formulae	60-61
		Day 4	Moles and Chemical equations	62-64
11		Day 1	**Percentage Yield**	65-66
		Day 2	**Exam Style Questions**	68
		Day 3	**Exam Style Questions**	68
		Day 4	**Exam Style Questions**	68

Week No.	Chapter No.	Day	Topic	Book Page Numbers
12		Day 1	Revision of Chap 1	06-51
		Day 2	Revision of Chap 1	06-52
		Day 3	Test Chap 1	06-53
		Day 4	Revision of Chap 2	06-54
13		Day 1	**Revision of Chap 2**	06-55
		Day 2	**Test Chap 2**	06-56
		Day 3	**Revision of Chap 3**	06-57
		Day 4	**Revision of Chap 3**	06-58
14		Day 1	Test Chap 3	06-59
		Day 2	Revision of Chap 4	06-60
		Day 3	Revision of Chap 4	06-61
		Day 4	Test Chap 4	06-62
15	5	Day 1	**Electricity and Chemistry**	69
		Day 2	**Electrolysis of lead (II) bromide**	70-71
		Day 3	**Electrolysis of aluminium oxide**	72
		Day 4	**Electrolysis of aluminium oxide**	73-74
16		Day 1	Electrolysis of Aqueous solutions	75
		Day 2	Electrolysis of Aqueous solutions	76-77
		Day 3	Electrolysis of copper (II) sulfate aqueous solution	78
		Day 4	Electrolysis of copper (II) sulfate aqueous solution	79-80
17		Day 1	**Fuel Cells**	81
		Day 2	**Electroplating**	82-83
		Day 3	**Exam style Questions**	85
		Day 4	**Exam style Questions**	86

Week No.	Chapter No.	Day	Topic	Book Page Numbers
18	6	Day 1	Substances from petroleum	87
		Day 2	Substances from petroleum	88-89
		Day 3	Fossil Fuels	90
		Day 4	Alternative sources to fossil fuels	91
19		Day 1	**Exothermic and Endothermic reactions**	92
		Day 2	**Exothermic and Endothermic reactions**	93
		Day 3	**Exothermic and Endothermic reactions**	94
		Day 4	**Exothermic and Endothermic reactions**	95
20		Day 1	Exam style Questions	98
		Day 2	Exam style Questions	98
		Day 3	Exam style Questions	99
		Day 4	Exam style Questions	99
21	7	Day 1	**Reactions**	100
		Day 2	**Factors that affect the rate of reaction, Surface area**	101-103
		Day 3	**Concentration**	104
		Day 4	**Pressure of gases, Temperature**	105
22		Day 1	Catalyst	106
		Day 2	Enzymes	107
		Day 3	Reversible reactions and equilibrium	108
		Day 4	Ammonia-an important nitrogen containing chemical	109
23		Day 1	**Ammonia-an important nitrogen containing chemical**	110
		Day 2	**Industrial manufacture of sulfuric acid- the Contact process**	111-112
		Day 3	**Exam style Questions**	114
		Day 4	**Exam style questions**	115

Week No.	Chapter No.	Day	Topic	Book Page Numbers
24	8	Day 1	Acids and Alkalis	116-117
		Day 2	Bronsted-Lowry theory	118-119
		Day 3	Neutralisation reactions	120
		Day 4	Formation of salts	120
25		Day 1	**Methods of preparing soluble salts**	121
		Day 2	**Acid + carbonate**	122
		Day 3	**Acid + insoluble base**	123
		Day 4	**Preparing insoluble salts**	124
26		Day 1	Testing for different salts	125-126
		Day 2	Water of Crystallization, Titration	127-129
		Day 3	Exam style questions	132
		Day 4	Exam style questions	133
27		Day 1	**Revision of Chap 5**	
		Day 2	**Revision of Chap 5**	
		Day 3	**Revision of Chap 6**	
		Day 4	**Revision of Chap 6**	
28		Day 1	Revision of Chap 7	
		Day 2	Revision of Chap 7	
		Day 3	Revision of Chap 8	
		Day 4	Revision of Chap 8	