

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



MATH
SYLLABUS

CLASS VIII
(O-Level)

PAKISTAN INTERNATIONAL SCHOOL, BURAIDAH
SYLLABUS BREAKUP

Class: VIII O' Level Subject: Mathematics

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

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

Name of Text Book: Complete Mathematics (Extended) sixth Edition by David Rayner

Week No.	Chapter No.	Day	Topic	Book Page Numbers
1	1	Day 1	Arithmetic	2
		Day 2	Arithmetic	2
		Day 3	Fractions	4
		Day 4	Fractions	4
2	1	Day 1	Number facts and sequences	5
		Day 2	Number facts and sequences	5
		Day 3	Approximation and estimations	5
		Day 4	Test	
3	1	Day 1	Rational and Irrational Numbers	9
		Day 2	Sequence the nth term	11
		Day 3	Finding the nth term	.12-13
		Day 4	Measurements and bounds	15-17
4	1	Day 1	Standard form	19
		Day 2	Surds	21-22
		Day 3	adding and subtracting the surds	23
		Day 4	Test	
5	1	Day 1	negative numbers	24
		Day 2	operating involving the negative numbers	26-27
		Day 3	Number facts and sequences	28-29
		Day 4	quadratic sequence	30

Week No.	Chapter No.	Day	Topic	Book Page Numbers
6	1	Day 1	cubic and exponential sequences	31-32
		Day 2	rules of indices	33-34
		Day 3	standard form	35
		Day 4	Test	
7	1	Day 1	using ANS button	35-38
		Day 2	time and money calculations	39
		Day 3	Mixed Problems	40
		Day 4	Mixed Problems	41
8	2	Day 1	substitution	55
		Day 2	bracket and simplifying	56
		Day 3	solving the linear equation	57
		Day 4	test	
9	2	Day 1	equation with brackets	58-61
		Day 2	Formulaeproblem solved by linear equations	62-63
		Day 3	simultaneous equation	64-66
		Day 4	elimination Method	68-69
10	2	Day 1	problem solved by simultaneous equation	70-71
		Day 2	Problem solving by linear equation	72
		Day 3	Problem solving by linear equation	73-74
		Day 4	Test	
11	2	Day 1	Simltaneous equations	77-79
		Day 2	Elimination Methode	80
		Day 3	Factorising	84-85
		Day 4	Factorising	85

Week No.	Chapter No.	Day	Topic	Book Page Numbers
12	2	Day 1	Factorising	86
		Day 2	Quadratic Equation	87
		Day 3	The difference of two squares	88
		Day 4	Test	
13	2	Day 1	Solution by formulae	90
		Day 2	Solution by completing the square	92
		Day 3	Problems solving by quadratic eq	94
		Day 4	Problems solving by quadratic eq	96
14	3	Day 1	Non linear simultaneous eq	97
		Day 2	revision ch-1	104
		Day 3	revision ch-1	105
		Day 4	revision ch-1	
15	3	Day 1	ratio and proprtion	85 to 87
		Day 2	ratio and proprtion	88
		Day 3	ratio and proprtion	89
		Day 4	ratio and proprtion	90
16	3	Day 1	map scale	91
		Day 2	area scale factor	93
		Day 3	area scale factor	
		Day 4	Test	
17	3	Day 1	percentage	94
		Day 2	percentage	95 to 96
		Day 3	percentage increase and decrease	97 to 98
		Day 4	percentage increase and decrease	99

Week No.	Chapter No.	Day	Topic	Book Page Numbers
18	3	Day 1	financial mathematics	100
		Day 2	simple interest	100
		Day 3	simple interest	101
		Day 4	Test	
19	4	Day 1	repeated percentage change	102
		Day 2	compound interest	103
		Day 3	income tax	106
		Day 4	time interval	108
20	4	Day 1	time interval	108
		Day 2	rates	110
		Day 3	rates	
		Day 4	test	
21	4	Day 1	speed	111
		Day 2	distance	111
		Day 3	other rate	114
		Day 4	calculator	117
22	4	Day 1	pathogoras theoram	121
		Day 2	using pathogoras theoram	123
		Day 3	trigonometry	125
		Day 4	Test	
23	4	Day 1	finding the length of side	126
		Day 2	finding the length of side	127
		Day 3	compound shape	128
		Day 4	compound shape	132

Week No.	Chapter No.	Day	Topic	Book Page Numbers
24	4	Day 1	exact trigonometric values	133
		Day 2	exact trigonometric values	135
		Day 3	exact trigonometric values	136
		Day 4	Test	
25	4	Day 1	bearings	137
		Day 2	bearings	138
		Day 3	angle of elevation	139
		Day 4	angle of elevation	141
26	5	Day 1	angle of elevation	141
		Day 2	angle of elevation	142
		Day 3	angle of elevation	143
		Day 4	Test	
27	5	Day 1	scale and drawing	143
		Day 2	scale and drawing	
		Day 3	3D trigonometry	144
		Day 4	3D trigonometry	145
28	5	Day 1	revision	183
		Day 2	revision	184
		Day 3	revision	187
		Day 4	Test	