

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



BIOLOGY

SYLLABUS

CLASS VIII

(O-Level)

PAKISTAN INTERNATIONAL SCHOOL, BURAIDAH
SYLLABUS BREAKUP

Class: 8th O Levels Subject: Biology

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

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

Name of Text Book: Cambridge IGCSE Biology 4th edition (Hodder Education)

Week No.	Chapter No.	Day	Topic	Book Page Numbers
1	1	Day 1	characteristics & classification of living organisms	1,2
		Day 2	Dichotomous key	3,4
		Day 3	classification and evolutionary relationship	5,6
		Day 4		7,8
2		Day 1	animal kingdom	9,10
		Day 2	arthropods	11,12
		Day 3	vertebrates	13,14
		Day 4	five kingdom scheme	15,16
3		Day 1	plant kingdom	17,18
		Day 2	fungi kingdom	19,20
		Day 3	viruses	21,22
		Day 4	exam style Questions	23,24
4	2	Day 1	organisation of the organism	25,26
		Day 2	cell structure	27,28
		Day 3	bacterial cell structure	29,30
		Day 4	cell structure	31,32
5		Day 1	specialized cells	33,34
		Day 2	tissue, organ,organ system & organism	35,36
		Day 3	size of specimen	37,38
		Day 4	exam style Questions	39,40

Week No.	Chapter No.	Day	Topic	Book Page Numbers
6	3	Day 1	movement in and out of cell	41,42
		Day 2	diffusion	43,44
		Day 3	dialysis machine	45,46
		Day 4	osmosis	47,48
7		Day 1	diffusion & osmosis	49,50
		Day 2	how osmosis work	51
		Day 3	how osmosis work	52
		Day 4	water potential	53
8		Day 1	importance of water potential	54
		Day 2	test yourself	55
		Day 3	plasmolysis	56
		Day 4	plasmolysis	57
9		Day 1	active transport	58
		Day 2	active transport	59
		Day 3	exam style Questions	60
		Day 4	exam style Questions	61
10	4	Day 1	exam style Questions	62
		Day 2	biological molecules	63
		Day 3	carbohydrates	64
		Day 4	fats & proteins	65
11		Day 1	structure of DNA	66
		Day 2	test yourself	67
		Day 3	DNA	68
		Day 4	DNA	69

Week No.	Chapter No.	Day	Topic	Book Page Numbers
12	5	Day 1	food tests	70
		Day 2	exam style Questions	71
		Day 3	exam style Questions	72
		Day 4	Enzymes	73
13		Day 1	enzyme action	74
		Day 2	enzymes and temperature	75
		Day 3	enzymes and ph	76
		Day 4	explaining enzyme action	77
14		Day 1	explaining enzyme action	78
		Day 2	effect of temperature on an enzyme reaction	79
		Day 3	effect of temperature on an enzyme reaction	80,81
		Day 4	exam style Questions	82,83
15	6	Day 1	plant nutrition,photosynthesis	84,85
		Day 2	photosynthesis process	86,87
		Day 3	mineral requirements	88,89
		Day 4	chlorophyll, CO ₂ and O ₂ for photosynthesis	90,91
16		Day 1	hypotheses, gaseous exchange in plants	92,93
		Day 2	external factors on rate of photosynthesis	94,95
		Day 3	effect of temperature on an enzyme reaction	96,97
		Day 4	leaf stucture	98,99
17	7	Day 1	parts of the leaf and their functions	100,101
		Day 2	parts of the leaf and their functions	102,103
		Day 3	test yourself	104,105
		Day 4	exam style Questions, Human nutrition	106,107

Week No.	Chapter No.	Day	Topic	Book Page Numbers
18		Day 1	classes of food	108,109
		Day 2	vitamins	110,111
		Day 3	mineral ions and dietary fibre	112,113
		Day 4	digestive system	114,115
19		Day 1	physical digestion , tooth structure	116,117
		Day 2	chemical digestion	118,119
		Day 3	chemical digestion	120,121
		Day 4	absorption	122,123
20	8	Day 1	digestion	124,125
		Day 2	test yourself	126,127
		Day 3	exam style questions	128,129
		Day 4	Transport in plants	130,131
21		Day 1	xylem and phloem	132,133
		Day 2	uptake and transport of water and ions	134,135
		Day 3	transpiration	136,137
		Day 4	water movement in xylem	138,139
22	9	Day 1	importance of transpiration	140,141
		Day 2	translocation	142,143
		Day 3	exam style questions	144,145
		Day 4	Transport in animals, circulatory system	146,147
23		Day 1	heart structure	148,149
		Day 2	monitoring the activity of the heart	150,151
		Day 3	coronary heart disease	152,153
		Day 4	prevention of coronary heart disease	154,155

Week No.	Chapter No.	Day	Topic	Book Page Numbers
24		Day 1	blood vessels	156,157
		Day 2	blood vessels	158,159
		Day 3	blood	160,161
		Day 4	blood	162,163
25	10	Day 1	test yourself	164,165
		Day 2	exam style questions	166,167
		Day 3	exam style questions	168
		Day 4	disease and immunity	169
26		Day 1	transmission	170
		Day 2	transmission	171
		Day 3	controlling disease	172
		Day 4	controlling disease	173
27		Day 1	cholera	174
		Day 2	defences against diseases	175
		Day 3	B and T lymphocytes	176
		Day 4	vaccination	177
28		Day 1	passive immunity	178
		Day 2	ideas about disease transmission & microorganism	179
		Day 3	ideas about disease transmission & microorganism	180
		Day 4	Exam style questions	181,182