

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



PHYSICS SYLLABUS

CLASS VIII (O-Level)

PAKISTAN INTERNATIONAL SCHOOL, BURAIDAH
SYLLABUS BREAKUP

Class: 8TH-A

Subject: PHYSICS

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

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

Name of Text Book: Physics IGCSE (4th - Edition) by Tom Duncan

Week No.	Chapter No.	Day	Topic	Book Page Numbers
1	1.1	Day 1	Units & basic question + Length	2 _ 3
		Day 2	Significant figures + T. Question	3 _ 4
		Day 3	Area + Volume + Examples	4 _ 5
		Day 4	Time + Questions	6
2	1.1	Day 1	Systematic errors + Scalars & reotors	7 _ 9
		Day 2	Exam - style Questions (1 - 3)	11
		Day 3	Exam - style Questions (4 - 6)	11
		Day 4	Test	
3	1.2	Day 1	Speed , Velocity & Acceleration	12 _ 13
		Day 2	Speed time graph	14 _ 15
		Day 3	Distance time graph	15 _ 16
		Day 4	Questions + Equation for Acceleration	16 _ 17
4	1.2	Day 1	Falling bodies + Acceleration of tree fall	18 _ 19
		Day 2	Questions + Terminal Velocity	21 _ 22
		Day 3	Exam - style Questions (1 , 2 , 3)	-23
		Day 4	Exam - style Questions (4 , 5 , 6)	23 _ 23
5	1.3	Day 1	Exam - style Questions (7 , 8 , 9)	24
		Day 2	Mass & Weight	25 _ 26
		Day 3	The Newton + Gravity	26
		Day 4	Gravitational field + Questions	26 _ 27

Week No.	Chapter No.	Day	Topic	Book Page Numbers
6	1.3	Day 1	Exam - style Questions (1 , 2)	28
		Day 2	Exam - style Questions (3)	28
		Day 3	Activity Questions	26 _ 27
		Day 4	Test	
7	1.4	Day 1	Density	29
		Day 2	Examples + Questions	30
		Day 3	Simple Density Measurements	30
		Day 4	Floating & Sinking	31
8	1.4	Day 1	Test yourself Question	31
		Day 2	Exam - style Questions (1 , 2)	32
		Day 3	Exam - style Questions (3)	32
		Day 4	Test	
9	1.5	Day 1	Force	33 _ 34
		Day 2	Spring constants + Examples	35
		Day 3	Forces & resultants + Questions	35 _ 37
		Day 4	Newton's Laws	37 _ 39
10	1.5	Day 1	Examples + Questions	39 _ 40
		Day 2	Friction + Circular Motion	40 _ 42
		Day 3	Torque + Question	43 _ 44
		Day 4	Principles of moments + levers	45 _ 46
11	1.5	Day 1	Centre of gravity + Toppling	47 _ 51
		Day 2	Exam - style Questions (1 , 2 , 3)	52
		Day 3	Exam - style Questions (4 , 5 , 6)	52
		Day 4	Exam - style Questions (7 , 8 , 9 , 10 , 11)	53

Week No.	Chapter No.	Day	Topic	Book Page Numbers
12	1.6	Day 1	Moments + Questions	55 _ 56
		Day 2	Explosions + Question	57
		Day 3	Impulse + Questions	58
		Day 4	Exam - style Questions (1)	59
13	1.6	Day 1	Test	59
		Day 2	Exam - style Questions (2)	59
		Day 3	Exam - style Questions (3)	59
		Day 4	Exam - style Questions (4)	59
14	Revision	Day 1	Revision of Ch# (1.1 - 1.2)	
		Day 2	Test	
		Day 3	Revision of Ch# (1.3 - 1.4)	
		Day 4	Test	
15	1.7	Day 1	Energy Stores	61
		Day 2	Energy transfers	62
		Day 3	Kinetic Energy	63
		Day 4	Examples + Questions + P.E	64
16	1.7	Day 1	Conservation of energy	65
		Day 2	Work + Question	67 _ 68
		Day 3	Energy resoures	69 _ 71
		Day 4	Power stations	72 _ 73
17	1.7	Day 1	Efficiency + Power	74 _ 75
		Day 2	Exam - style Questions (1 , 2 , 3)	77
		Day 3	Exam - style Questions (4 , 5)	77
		Day 4	Exam - style Questions (6 , 7)	77

Week No.	Chapter No.	Day	Topic	Book Page Numbers
18	1.8	Day 1	Presures + Questions	78 _ 79
		Day 2	Liquid presure + Examples	79 _ 80
		Day 3	Hydracllic Machines	80 _ 81
		Day 4	Expression of liquid presure	82
19	1.8	Day 1	Exam - style Questions (1 , 2)	84
		Day 2	Exam - style Questions (3 , 4)	84
		Day 3	Exam - style Questions (5)	84
		Day 4	Test	
20	2.1	Day 1	State of Matter + Questions	86 _ 87
		Day 2	Practical model (Solid , Liquid)	87 _ 88
		Day 3	Practical model Gases	89
		Day 4	Temperature & K. E	89 _ 90
21	2.1	Day 1	Presure of Gases	91 _ 92
		Day 2	Boyle's Law + Examples	93
		Day 3	Temperature Scale	94
		Day 4	Question	96 _ 97
22	2.1	Day 1	Exam - style Questions (1 , 2 , 3)	98
		Day 2	Exam - style Questions (4 , 5)	98
		Day 3	Exam - style Questions (6 , 7)	98
		Day 4	Test	
23	2.2	Day 1	Thermal expansion	100 _ 101
		Day 2	Bimetallic strip + Question	101 _ 102
		Day 3	Unusual expansion of water	103
		Day 4	Specific heat of capacity	105

Week No.	Chapter No.	Day	Topic	Book Page Numbers
24	2.2	Day 1	Examples + Questions	106 _ 107
		Day 2	Melting , Boiling point	108 _ 111
		Day 3	Evaporatuon	112
		Day 4	Exam - style Questions (1 , 2 , 3 , 4)	114
25	2.3	Day 1	Exam - style Questions (5 , 6 , 7)	114
		Day 2	Conduction	115
		Day 3	Conduction + Question	116
		Day 4	Convection	117
26	2.3	Day 1	Convection + Question	118
		Day 2	Rediation	119
		Day 3	Rediation	120 _ 121
		Day 4	Test	
27	2.3	Day 1	Thermal energy transter	122 _ 123
		Day 2	Thermal energy transter	124
		Day 3	Exam - style Questions (1 , 2 , 3 , 4)	126
		Day 4	Exam - style Questions (5 , 6 , 7 , 8)	126
28	Revision	Day 1	Revision Ch# (1.7 , 1.8)	
		Day 2	Test	
		Day 3	Revision Ch# (2.1 , 2.2)	
		Day 4	Test	