

**PAKISTAN INTERNATIONAL SCHOOL, BURAIDAH**  
**SYLLABUS BREAKUP**

**Class: VIII-C**

**Subject: PHYSICS**

Number of Teaching Weeks in First Term: (1 - 17)

Number of Teaching Weeks in Second Term: (18 - 34)

**Name of Text Book: IGCSE PHYSICS BY TOM DUNCAN**

Week No.	Chapter No.	Day	Topic	Book Page Numbers
1	MEASUREMENT AND MOTION	Day 1	Measurements	2
		Day 2	Measurements	3
		Day 3	Measurements	4
		Day 4	Measurements	4
2	MEASUREMENT AND MOTION	Day 1	Measurements	5
		Day 2	Measurements	5
		Day 3	Measurements	6
		Day 4	Measurements	7
3	MEASUREMENT AND MOTION	Day 1	Measurements	7
		Day 2	Measurements	7
		Day 3	Density	21
		Day 4	Density	21
4	MEASUREMENT AND MOTION	Day 1	Density	22
		Day 2	Density	22
		Day 3	Density	23
		Day 4	Density	23
5	MEASUREMENT AND MOTION	Day 1	Speed	9
		Day 2	Velocity	9
		Day 3	Acceleration	9
		Day 4	Acceleration	9

Week No.	Chapter No.	Day	Topic	Book Page Numbers
6	MEASUREMENT AND MOTION	Day 1	Questions	12
		Day 2	Velocity–time graphs	13
		Day 3	Velocity–time graphs	13
		Day 4	Distance–time graphs	14
7	MEASUREMENT AND MOTION	Day 1	Questions	15
		Day 2	Questions	16
		Day 3	Questions	16
		Day 4	Questions	16
8	MEASUREMENT AND MOTION	Day 1	Falling bodies	17
		Day 2	Acceleration of free fall	18
		Day 3	Distance–time graphs	18
		Day 4	Questions	19
9	MEASUREMENT AND MOTION	Day 1	Weight and stretching	24
		Day 2	Weight and stretching	24
		Day 3	Weight and stretching	25
		Day 4	Weight and stretching	26
10	MEASUREMENT AND MOTION	Day 1	Adding forces	27
		Day 2	Forces and resultants	27
		Day 3	Parallelogram law	27
		Day 4	Worked example	28
11	MEASUREMENT AND MOTION	Day 1	Vectors and scalars	28
		Day 2	Friction	29
		Day 3	Questions	30
		Day 4	Questions	29

Week No.	Chapter No.	Day	Topic	Book Page Numbers
12	MEASUREMENT AND MOTION	Day 1	Force and acceleration	30
		Day 2	Force and acceleration	31
		Day 3	Force and acceleration	32
		Day 4	Force and acceleration	33
13	MEASUREMENT AND MOTION	Day 1	Force and acceleration	34
		Day 2	Force and acceleration	34
		Day 3	Circular motion	35
		Day 4	Circular motion	35
14		Day 1	Revision	
		Day 2	Revision	
		Day 3	Revision	
		Day 4	Revision	
15		Day 1	Revision	
		Day 2	Revision	
		Day 3	Revision	
		Day 4	Revision	
16		Day 1	Revision	
		Day 2	Revision	
		Day 3	Revision	
		Day 4	Revision	
17		Day 1	Revision	
		Day 2	Revision	
		Day 3	Revision	
		Day 4	Revision	

Week No.	Chapter No.	Day	Topic	Book Page Numbers
18	FORCES	Day 1	Moment of a force	39
		Day 2	Moment of a force	39
		Day 3	Moment of a force	40
		Day 4	law of moments	40
19	FORCES	Day 1	law of moments	40
		Day 2	Worked example	40
		Day 3	Conditions for equilibrium	41
		Day 4	Conditions for equilibrium	41
20	FORCES	Day 1	Questions	42
		Day 2	Questions	42
		Day 3	Centres of mass	43
		Day 4	Centres of mass	43
21	FORCES	Day 1	Toppling	44
		Day 2	Stability	44
		Day 3	Stability	44
		Day 4	Questions	45
22	Momentum	Day 1	Momentum	47
		Day 2	Momentum	47
		Day 3	Conservation of momentum	47
		Day 4	Conservation of momentum	48
23	Momentum	Day 1	Conservation of momentum	48
		Day 2	Conservation of momentum	49
		Day 3	Questions	49
		Day 4	Questions	49

Week No.	Chapter No.	Day	Topic	Book Page Numbers
24	Energy	Day 1	Energy transfer	50
		Day 2	Energy transfer	51
		Day 3	Work	52
		Day 4	Power	52
25	Energy	Day 1	Questions	53
		Day 2	Questions	53
		Day 3	Questions	53
		Day 4	Questions	53
26	Energy	Day 1	Kinetic energy (k.e.)	56
		Day 2	Potential energy (p.e.)	56
		Day 3	Change of p.e. to k.e.	57
		Day 4	Conservation of energy	57
27	Energy	Day 1	Conservation of energy	57
		Day 2	Conservation of energy	58
		Day 3	Questions	59
		Day 4	Questions	59
28	Energy	Day 1	Energy sources	60
		Day 2	Non-renewable energy sources	60
		Day 3	Renewable energy sources	60-61
		Day 4	Renewable energy sources	62-63
29	Energy	Day 1	Renewable energy sources	64
		Day 2	Questions	65
		Day 3	Questions	65
		Day 4	Questions	65

Week No.	Chapter No.	Day	Topic	Book Page Numbers
30	Pressure	Day 1	Pressure	66
		Day 2	Liquid pressure	66
		Day 3	Hydraulic machines	67
		Day 4	Expression for liquid pressure	68
31	Pressure	Day 1	Pressure gauges	69
		Day 2	Pressure gauges	69
		Day 3	Questions	70
		Day 4	Questions	70
32	Pressure	Day 1	Revision	
		Day 2	Revision	
		Day 3	Revision	
		Day 4	Revision	
33	6	Day 1	Revision	
		Day 2	Revision	
		Day 3	Revision	
		Day 4	Revision	
34		Day 1	Revision	
		Day 2	Revision	
		Day 3	Revision	
		Day 4	Revision	