

TPS-DRC/JTC

Class 9 – Syllabus & Learning Resource

Subject	Physics 9 th	Syllabus Till	
Syllabus: 3, 4 , 2, 1			
Unit/ Question Title	Topic	Availability of Learning Resource	
		Video Tutorial Link	Reading Material Reference
CH. NO. 03 3.1	Introduction to force	https://sabaq.pk/video-page.php?sid=balochistan-physics-9th-3.1&v=p-9-10-dynamics-1	E book , pg. 58
	Introduction to inertia	https://sabaq.pk/video-page.php?sid=balochistan-physics-9th-3.1&v=p-9-10-dynamics-2	E book , pg.58
	Introduction to momentum	https://sabaq.pk/video-page.php?sid=balochistan-physics-9th-3.1&v=p-9-10-dynamics-9	E book , pg.59
	Problems of introduction to momentum	https://sabaq.pk/video-page.php?sid=balochistan-physics-9th-3.1&v=p-9-10-dyn-9-p9-prob1	E book , pg.59
3.2	Newton First Law	https://sabaq.pk/video-page.php?sid=balochistan-physics-9th-3.2&v=p-9-10-dynamics-4	E book , pg.59
	3.3	Newton Second Law	https://sabaq.pk/video-page.php?sid=balochistan-physics-9th-3.2&v=p-9-10-dynamics-5
	Problems of Newton Second Law	https://sabaq.pk/video-page.php?sid=balochistan-physics-9th-3.2&v=p-9-10-dyn-5-prob1	E book , pg.61
	Difference Between Mass and Weight	https://sabaq.pk/video-page.php?sid=balochistan-physics-9th-3.3&v=p-9-10-dynamics-3	E book , pg.62
	Third law of Motion	https://sabaq.pk/video-page.php?sid=balochistan-physics-9th-3.3&v=p-9-10-dynamics-6	E book , pg.63
3.4	Vertical Motion of two bodies	https://sabaq.pk/video-page.php?sid=balochistan-physics-9th-3.4&v=p-9-10-dynamics-7	E book , pg.64
	Problem related to vertical motion	https://sabaq.pk/video-page.php?sid=balochistan-physics-9th-3.4&v=p-9-10-dyn-7-prob1	E book , pg.65
	Horizontal and vertical motion	https://sabaq.pk/video-page.php?sid=balochistan-physics-9th-3.4&v=p-9-10-dynamics-8	E book , pg.66
	Problems related to horizontal and vertical	https://sabaq.pk/video-page.php?sid=balochistan-physics-9th-3.4&v=p-9-10-	E book , pg.67

	motion	dyn-8-prob1	
3.5	Relation between force and Momentum	https://sabaq.pk/video-page.php?sid=balochistan-physics-9th-3.5&v=p-9-10-dynamics-10	E book , pg.67, 68
3.6			
3.7	Law of conservation of momentum	https://sabaq.pk/video-page.php?sid=balochistan-physics-9th-3.6&v=p-9-10-dynamics-11	E book , pg.69
	Introduction to friction	https://sabaq.pk/video-page.php?sid=balochistan-physics-9th-3.7&v=p-9-10-dynamics-12	E book , pg.72
	Rolling friction	https://sabaq.pk/video-page.php?sid=balochistan-physics-9th-3.7&v=p-9-10-dynamics-13	E book , pg.74
	Breaking and skidding	https://sabaq.pk/video-page.php?sid=balochistan-physics-9th-3.7&v=p-9-10-dynamics-14	E book , pg.76
	Advantage and disadvantage of friction	https://sabaq.pk/video-page.php?sid=balochistan-physics-9th-3.7&v=p-9-10-dynamics-15	E book , pg.76
	Method of reducing friction	https://sabaq.pk/video-page.php?sid=balochistan-physics-9th-3.7&v=p-9-10-dynamics-16	E book , pg.76
3.8	Uniform Circular Motion	https://sabaq.pk/video-page.php?sid=balochistan-physics-9th-3.8&v=p-9-10-dynamics-17	E book , pg.76,77
3.9			
3.10	Centripetal and centrifugal force	https://sabaq.pk/video-page.php?sid=balochistan-physics-9th-3.9&v=p-9-10-dynamics-18	E book , pg.77, 78
	Formula for centripetal and centrifugal force	https://sabaq.pk/video-page.php?sid=balochistan-physics-9th-3.10&v=p-9-10-dyn-18-prob1	E book , pg.78,79
	Problems on centripetal force and centrifugal force	https://sabaq.pk/video-page.php?sid=balochistan-physics-9th-3.10&v=p-9-10-dyn-18-prob1	E book , pg.78,79
	Application of centripetal force	https://sabaq.pk/video-page.php?sid=balochistan-physics-9th-3.10&v=p-9-10-dynamics-20	E book , pg. 79
	More on application of centripetal force	https://sabaq.pk/video-page.php?sid=balochistan-physics-9th-3.10&v=p-9-10-dynamics-21	E book , pg.80
	Numerical	https://www.youtube.com/watch?v=on6aaqVRwek	
Unit/ Question Title	Topic	Availability of Learning Resource	
		Video Tutorial Link	Reading Material Reference
CH.no.4	Like and unlike parallel forces	https://sabaq.pk/video-page.php?sid=balochistan-physics-9th-4.1&v=p-9-10-turn-effe-7	E book ,pg.86
4.1			
4.2	Addition of forces	https://sabaq.pk/video-page.php?sid=balochistan-physics-9th-4.2&v=p-9-10-	E book ,pg.87

		turn-effe-10	
	Problems on vector additios	https://sabaq.pk/video-page.php?sid=balochistan-physics-9th-4.2&v=p-9-10-te-10-prob1	E book ,pg.87
4.3	Resolution of forces	https://sabaq.pk/video-page.php?sid=balochistan-physics-9th-4.3&v=p-9-10-turn-effe-11	E book ,pg.88
4.4	Problems on resolution of forces	https://sabaq.pk/video-page.php?sid=balochistan-physics-9th-4.3&v=p-9-10-te-11-prob1	E book ,pg.89
4.5	Determiation of force from its perpendicular components	https://sabaq.pk/video-page.php?sid=balochistan-physics-9th-4.4&v=p-9-10-turn-effe-12	E book ,pg.89
	Axis of rotation	https://sabaq.pk/video-page.php?sid=balochistan-physics-9th-4.5&v=p-9-10-turn-effe-8	E book ,pg.90
	Introduction of Torque	https://sabaq.pk/video-page.php?sid=balochistan-physics-9th-4.5&v=p-9-10-turn-effe-13	E book ,pg.90, 91
	Problems on torque	https://sabaq.pk/video-page.php?sid=balochistan-physics-9th-4.5&v=p-9-10-te-13-prob1	E book ,pg.92
4.6	Center of mass	https://sabaq.pk/video-page.php?sid=balochistan-physics-9th-4.6&v=p-9-10-turn-effe-15	E book ,pg.93
4.7			
4.8	Center of gravity of irregular shape	https://sabaq.pk/video-page.php?sid=balochistan-physics-9th-4.7&v=p-9-10-turn-effe-17	E book ,pg.94
	Introduction to couple	https://sabaq.pk/video-page.php?sid=balochistan-physics-9th-4.8&v=p-9-10-turn-effe-18	E book ,pg.96
4.9	Center of gravity	https://sabaq.pk/video-page.php?sid=balochistan-physics-9th-4.9&v=p-9-10-turn-effe-16	E book ,pg.96
4.10			
	Introduction to equilibrium	https://sabaq.pk/video-page.php?sid=balochistan-physics-9th-4.10&v=p-9-10-turn-effe-19	E book ,pg.97
	Equilibrium of bodies under coplanar forces	https://sabaq.pk/video-page.php?sid=balochistan-physics-9th-4.10&v=p-9-10-turn-effe-20	E book ,pg.97
4.11	Condition for equilibrium	https://sabaq.pk/video-page.php?sid=balochistan-physics-9th-4.11&v=p-9-10-turn-effe-21	E book ,pg. 97,98
	Problem 1	https://sabaq.pk/video-page.php?sid=balochistan-physics-9th-4.11&v=p-9-10-te-21-prob1	E book ,pg.98
	Problem 2	https://sabaq.pk/video-page.php?sid=balochistan-physics-9th-4.11&v=p-9-10-te-21-prob2	E book,pg.99
	Problem 3	https://sabaq.pk/video-page.php?sid=balochistan-physics-9th-4.11&v=p-9-10-te-21-prob3	E book,pg.100

	Problem 4	https://sabaq.pk/video-page.php?sid=balochistan-physics-9th-4.11&v=p-9-10-te-21-prob4	E book,pg.101
4.12	States of equilibrium	https://sabaq.pk/video-page.php?sid=balochistan-physics-9th-4.12&v=p-9-10-turn-effe-22	E book,pg.
	Stability and position of center of mass	https://sabaq.pk/video-page.php?sid=balochistan-physics-9th-4.12&v=p-9-10-turn-effe-23	E book,pg.
	Numerical	https://www.youtube.com/watch?v=U3dT-AASgEw	
Subject	physics	Syllabus Till	
Unit/ Question Title	Topic	Availability of Learning Resource	
		Video Tutorial Link	Reading Material Reference
1 (1.1)	Introduction to physics	https://youtu.be/pHTX484OU5w	Physics book, Punjab text book board Page 2-4
	Branches of Physics	https://youtu.be/XqPhSPeXFQc	Physics book, Punjab text book board Page 3
1 (1.2)	Physical Quantities	https://youtu.be/-IxUV6E1Ctk	Physics book, Punjab text book board Page 4-5
1 (1.3)	International System of Units	https://youtu.be/c2jASYsp8a4	Physics book, Punjab text book board Page 5-6
1 (1.4)	Prefixes	https://youtu.be/BbhxgpwUAWs	Physics book, Punjab text book board Page 7-8
1 (1.5)	Scientific Notation	https://youtu.be/8BdHqvjHX0g	Physics book, Punjab text book board Page 8

1 (1.6)	Measuring Instrument	https://youtu.be/BbhxgpwUAWs	Physics book, Punjab text book board Page 9
	The Metre Rule, The Measuring Tape	https://youtu.be/9VGGImq-Nk4	Physics book, Punjab text book board Page 9
	Vernier Calliper Working of Vernier Calliper	https://youtu.be/M_oIB_j8ZqI https://youtu.be/fCQUOX5DO9Q	Physics book, Punjab text book board Page 10-11
	Screw Gauge Working of Screw Gauge	https://youtu.be/u0NrHP7sMYM https://youtu.be/OoChjqTBraE	Physics book, Punjab text book board Page 13-14
	Physical Balance	https://youtu.be/aOHeBYXCiXA	Physics book, Punjab text book board Page 16
	Lever Balance	https://youtu.be/uBAX5xlyfsU	Physics book, Punjab text book board Page 17
	Electronic Balance	https://youtu.be/8bIY0MtKN5M	Physics book, Punjab text book board Page 18
	Stopwatch	https://youtu.be/lgF6g-hbykw	Physics book, Punjab text book board Page 18-19
	Measuring Cylinder Measuring volume of irregular shape	https://youtu.be/AoRpFH6frks https://youtu.be/LOVieAMq_LI	Physics book, Punjab text book board Page 19-20

1 (1.7)	Significant Figures Rules for calculating Significant Figures	https://youtu.be/b7F8lmK9nKc https://youtu.be/J0BxE7uHTCo	Physics book, Punjab text book board Page 20-22
	Example 1.1	https://youtu.be/H6ecfyr7kw0	Physics book, Punjab text book board Page 12
	Example 1.2	https://youtu.be/t_tBHZzpLQI	Physics book, Punjab text book board Page 14-16
	Example 1.3	https://youtu.be/8p41LGb2BGo	Physics book, Punjab text book board Page 17
Unit/ Question Title	Topic	Availability of Learning Resource	
		Video Tutorial Link	Reading Material Reference
2	Introduction	https://youtu.be/hHHtlqsvPek	Physics book, Punjab text book board Page 28
2 (2.1)	Rest and Motion	https://youtu.be/c_aJTirPC9c	Physics book, Punjab text book board Page 29
2 (2.2)	Types of Motion		Physics book, Punjab text book board Page 29-32
	Translatory Motion	https://youtu.be/RGjl4k4AsDs	Physics book, Punjab text book board Page 29-31
	Rotatory Motion	https://youtu.be/3iuZSFDB2Hc	Physics book,

			Punjab text book board Page 31
	Vibratory Motion	https://youtu.be/d_ETsxqyhXc	Physics book, Punjab text book board Page 32
2 (2.3)	Scalars and Vectors	https://youtu.be/yhd4ScyqdJk	Physics book, Punjab text book board Page 33
	Representation of vectors	https://youtu.be/iTdFRQrh10U	Physics book, Punjab text book board Page 34
	Example 2.1	https://youtu.be/_PvVhJs6JmE	Physics book, Punjab text book board Page 34
2 (2.4)	Terms Associated with Motion		Physics book, Punjab text book board Page 34-40
	Position	https://youtu.be/571pM3950m0	Physics book, Punjab text book board Page 35
	Distance and Displacement	https://youtu.be/TmH1gckxAC4	Physics book, Punjab text book board Page 35
	Speed	https://youtu.be/Zak0E6O4nKY	Physics book, Punjab text book board Page 35
	Velocity	https://youtu.be/q_T8gCyaGIA	Physics book, Punjab text book board Page 36
	Uniform Velocity	https://youtu.be/CNuAji69_KM	Physics book, Punjab text

			book board Page 36
	Acceleration	https://youtu.be/DIGGGXtAGWw	Physics book, Punjab text book board Page 38
	Example 2.3	https://youtu.be/kLXcvlw5XOc	Physics book, Punjab text book board Page 37
	Example 2.4,2.5	https://youtu.be/h0eyjJsg7pQ	Physics book, Punjab text book board Page 39
2 (2.5)	Graphical Analysis of Motion		Physics book, Punjab text book board Page 40-44
	Distance-Time Graph	https://youtu.be/J0U9MZhi4sc	Physics book, Punjab text book board Page 40-41
	Speed-Time Graph	https://youtu.be/5owww6YuegQ	Physics book, Punjab text book board Page 42-43
	Example 2.6	https://youtu.be/zFcmv1Fhvno	Physics book, Punjab text book board Page 41
	Example 2.9	https://youtu.be/PePsz77jYyM	Physics book, Punjab text book board Page 43-44
2 (2.6)	Equation of Motion		Physics book, Punjab text book board Page 44-46

	1st Equation of Motion	https://youtu.be/PzMYsru-5TM	Physics book, Punjab text book board Page 45
	2nd Equation of Motion	https://youtu.be/K2AKeSi1gas	Physics book, Punjab text book board Page 45-46
	3rd Equation of Motion	https://youtu.be/K2AKeSi1gas	Physics book, Punjab text book board Page 46
	Example 2.10	https://youtu.be/psY78rqZdXU	Physics book, Punjab text book board Page 46-47
	Example 2.12	https://youtu.be/gr1bkV0GH_A	Physics book, Punjab text book board Page 47-48
	Example 2.13	https://youtu.be/yI6cwg0PtD8	Physics book, Punjab text book board Page 48
2 (2.7)	Motion of Freely Falling Bodies	https://youtu.be/cjNxxFzoYvE	Physics book, Punjab text book board Page 49
	Example 2.15	https://youtu.be/QXoTfPz0QVY	Physics book, Punjab text book board Page 50
	Numerical Examples (complete)	https://youtu.be/CL_zAlb4bzo	Physics book, Punjab text book board Page 28-50
	Paper Presentation	https://youtu.be/iDg6hu3lrUY	