

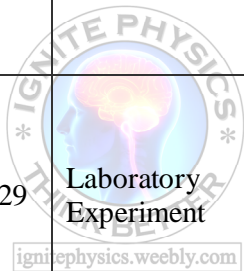
CLASS-09
PHYSICAL SCIENCE
LESSON PLAN
CHAPTER: 02 – MOTION

PERIOD NUMBER	CONCEPTS / TEACHING POINTS	PAGES IN TEXT BOOK		TEACHING PROCEDURE	TEACHING LEARNING MATERIAL	EVALUATION
		FROM	TO			
1.	Motion	15	18	Conversation	Globe, Chart with situation having motion of a car on a road with two observers	What is relative?
	Relative					What is motion?
	Motion is relative					
2.	Distance and Displacement	18	19	Activity	Chart showing vectors and scalars	Is displacement is a vector?
	Drawing displacement vectors			Conversation		What are the S.I. Units of distance?
3.	Average speed	19	21	Activity	Chart having a table of distances and time travelled by an object	What are the differences between velocity and speed?
	Average velocity			Activity		A car travelled 10 Km in 10 min and 17 km in 15 min. What do you say about the motion of the car?
	And their formulae			Conversation		
4.	Speed	21	22	Conversation	Chart showing details about velocity and speed	What is speed?
	Velocity					18 Km/h =m/s ?
	Instantaneous speed					What are the units of velocity in C.G.S. system?
	Average speed formula					

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5.	The direction of motion of a body	22	24	Activity	Object like ball, String Chart showing the data of distance in time (Uniform motion)	What is uniform motion?
	Uniform motion			Activity		The speedometer of car indicates a constant reading. Is it in uniform motion?
				Conversation		
6.	Non-uniform motion	24	24	Activity	Object like ball, String Chart showing the data of distance in time (Non uniform motion)	What is non uniform motion?
				Conversation		What is the shape of graph drawn between distance and time of a body which is in non uniform motion?
7.	Motion of a ball on an inclined plane	24	25	Activity	Inclined plane, Ball, Iron bob, Marble, Scale, Stop watch	What is the speed of ball travelled on an inclined plane?
8.	Uniform circular motion	25	25	Activity	Stone, Thread, Ball	What happened to the speed of a body thrown upward?
	Motion of object thrown into air			Activity		
9.	Acceleration	25	27	Conversation	Chart having details of acceleration and deceleration	What is acceleration?
	Uniform acceleration			Conversation		
	Deceleration			Conversation		The train moving towards the station moves with Acceleration?
	Graph showing the change in velocity			Conversation		

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10.	Equations of uniform accelerated motion $V = U + at$ and $V^2 - U^2 = 2aS$	27	28	Conversation	Chart	What is the relation between V,U,a and S ? A body starts from rest travelled 2 min with uniform acceleration 3 m/s^2 . What is its final velocity?
11.	Equations of uniform accelerated motion $S = Ut + \frac{1}{2} at^2$ Motion and Observations	27	28	Conversation	Chart	What is the relation between S,U,a and t ?
12.	Finding acceleration, velocity of an object moving on an inclined plane	28	29	Laboratory Experiment  ignitephysics.weebly.com	Glass marbles, Books, Digital clock, Plastic tubes, Steel plate	What is the relation between the slope and acceleration?
13.	Motion – Mathematical Problems	29	30	Conversation	*****	
14.	The formulae for the distance travelled by a body in n^{th} second	*	*	Conversation	Chart	A body travelled 100m in 5 seconds. It travelled 105m in 6 seconds. How much distance did it travel in 6^{th} second?