

CLASS-09
PHYSICAL SCIENCE
LESSON PLAN
CHAPTER: 03 – LAWS OF MOTION

PERIOD NUMBER	CONCEPTS / TEACHING POINTS	PAGES IN TEXT BOOK		TEACHING PROCEDURE	TEACHING LEARNING MATERIAL	EVALUATION
		FROM	TO			
1.	Experiments of scientists on motion	34	35	Activity Conversation	Inclined planes with different inclinations, Marbles	What happened if there is no friction?
2.	Life history of Galileo	36	36	Conversation	Galileo's photo, Photographs related to his life history, His inventions	Who invented Pendulum? Galileo belongs to which country?
3.	First law of motion	35	38	Conversation	Chart, Bottle, Paper, Pen cap, Bottle, Card, Marble, two cool drink bottles, Water, Synthetic paper strip, raw egg, boiled egg, trolley, wooden block	Define inertia?
	Inertia			Activity		How can you identify a raw egg and a boiled egg by using the principle of inertia? What is directional inertia?
4.	Inertia and mass	38	38	Conversation Activity	Two wooden blocks and a thick wooden scale	What is the relation between inertia and mass of object?
<p style="text-align: center;">NAGA MURTHY- 9441786635 Contact at : nagamurthysir@gmail.com Visit at : ignitephysics.weebly.com</p>						

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5.	Free body diagram (FBD)	39	39	Conversation	Chart	In which direction does normal force acts on a body?
						Where does friction force exist?
6.	Second law of motion	39	39	Conversation	Chart	Define momentum?
	Linear momentum			Conversation		What are the S.I. units for momentum?
7.	Net force - acceleration	40	41	Activity	Ice cube and wooden block	Is net force depends upon mass of the object?
	Mass - acceleration			Activity		State the relation between net force and rate of change in momentum?
8.	Net force – Mathematical problems	41	43	Conversation	Chart, Atwood machine	Does any object moves in a curved path if there is no net force?
	Atwood machine			Activity		
9.	Third law of motion	43	44	Activity	Two spring balances, Small and big iron bobs, Two wheel chairs	State Newton's third law of motion?
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10.	Working procedure of rocket	44	45	Conversation	Rocket model, Rocket video clip, String, Balloon, Plaster	What are the vehicles that travel with Newton's third law of motion?
	Balloon rocket experiment			Activity		
11.	Observing action and reaction forces acting on two different objects	45	45	Laboratory Experiment	Test tube, Rubber cork, Bunsen Burner, Stand, Thread	Are action and reaction forces acting on same object?
12.	Conservation of momentum	45	46	Activity	Marbles, Chart	What is the law of conservation of momentum?
	Impulse			Conversation		Change in momentum indicates?
13.	Isolated system	46	47	Conversation	Egg, Pillow, Paper pieces	What is impulse?
	Impulse			Activity		
14.	Linear momentum – Mathematical problems	47	48	Conversation	Chart	What is the momentum of a body having 6 Kg mass and moving with 2.2 m/s velocity?

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