

CLASS-08  
PHYSICAL SCIENCE  
LESSON PLAN  
**CHAPTER: 02 – FRICTION**

PERIOD NUMBER	CONCEPTS / TEACHING POINTS	PAGES IN TEXT BOOK		TEACHING PROCEDURE	TEACHING LEARNING MATERIAL	EVALUATION
		FROM	TO			
1.	Force of friction	19	20	Conversation	Book, Table, Chart	What are the forces acting in vertical direction?
	Friction and Types of friction			Activity		The direction of friction is located in which direction? Define frictional force?
2.	Nature of friction	20	21	Laboratory Experiment		Table, Pulley, Trolley, String, Weights, Weights hanger, Wooden block
	Concept of static friction				What is sliding friction?	
3.	Concept of static friction ( with different objects)	21	22	Laboratory Experiment	Table, Pulley, Trolley, String, Weights, Weights hanger, Wooden block, Iron block, Brick	Why sliding friction is less than static friction?
4.	Variations of friction	22	22	Activity	Table or Big wooden box	Is friction opposes the motion of an object?
				Conversation		

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5.	Factors affecting friction	23	23	Activity	Inclined plane, Ball, Pencil, Egg	What is the effect of roughness of the surface on frictional force?
6.	Effect of area of contact on friction	24	24	Activity	Brick, Spring balance, String	If area of surface of contact increases, then what is the effect on frictional force?
7.	Effect of normal force on friction	24	25	Activity	Brick-3 , Spring balance, String	What happens if normal force is doubled?
8.	Necessity of friction	25	25	Conversation	Chart	What happened if there is no friction on earth?
						How to change friction?
						Name some works that stops due to more friction?
9.	Friction produces heat	25	26	Activity	Match box, Photos of space vehicles	What is heat shield?
						Is heat produced due to friction? How can you tell?
10.	Increasing and decreasing friction	26	27	Conversation Activity	Spoon, Slippers, Chair, Carom board, Grease, Oil	How do we call the oils used to reduce friction?

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11.	Effect of rollers on friction	27	28	Activity	Book, Pencils, Pens, Sticks, Marbles, Two plates, Iron bobs, Wheels, Ball bearings	What is rolling friction?
	Ball bearing - principle			Activity		What is the use of Ball bearings?
12.	Fluid friction	28	29	Activity	Glass, Water, Tub, Kite, Shapes of different models like bird, plane, jet plane...	Define fluid friction?
				Conversation		What is the shape of glider? Why?

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