

CLASS-09
PHYSICAL SCIENCE
LESSON PLAN
CHAPTER: 08 – FLOATING BODIES

PERIOD NUMBER	CONCEPTS / TEACHING POINTS	PAGES IN TEXT BOOK		TEACHING PROCEDURE	TEACHING LEARNING MATERIAL	EVALUATION
		FROM	TO			
1.	Floating objects in water	119	120	Activity	Two beakers, Water, Kerosene, Pins, Buttons, sand, Stones, Paper, Marbles, Wax, Match sticks, ...	Which can float on water ? Name some substances that can sink in kerosene ? Why do objects sink or float ?
2.	Density	120	121	Conversation	Chart	What is density ?
	Relative density			Conversation		What are the units of relative density in S.I. system ?
3.	Finding relative density of solids	121	122	Activity	Stones, Iron bob, Tomato, Measuring jar, Thread, Digital Weight machine, Kerosene, Salt	How can we measure the density of sugar ? Mass per unit volume is called ?

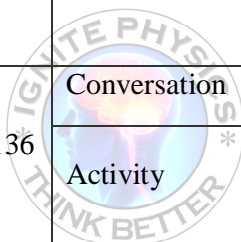
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4.	Finding relative density of liquids	122	123	Activity	Mini Measuring jar, Thread, Digital Weight machine, Water, Milk, Mercury, Honey, Kerosene	How can we measure the density of Milk ?
	What is the relative density of water ?					
5.	Making lactometer	123	125	Activity	Test tube, Refill, Smooth rubber	What is the use of lacto meter ?
	Problems - solutions			Conversation	(OR) Cool drink straw, Pins, thread, Beaker, water, Milk	What is the relation between mass and density ?
6.	When do objects float on water	125	126	Activity	Two beakers, Water, Kerosene, Pins, Buttons, sand, Stones, Paper, Marbles, Wax, Match sticks, Plastic ball, Rubber ball, Wooden piece	Why ships float on water ?
						Why an iron plate float on water ? but iron nail sinks in water ?
7.	Is the weight of an object and weight of water displaced by it is equal ?	126	127	Activity	Digital balance, Over flow jar, Water, Beaker, Different objects (Stone , Iron cube)	What is buoyancy ?

8.	Making Aluminium to float	127	128	Activity	Beaker, Water, Aluminium nails, Aluminium foils	Is a substance having more weight always sinks in liquids ?
	Upward force in liquids			Activity	Tub, Water, Plastic bottle	What is upward force ?
9.	Pressure of air	128	130	Activity	Tub, Water, Glass, Piece of cloth	What are the units for pressure ?
	Atmospheric pressure			Conversation	Video clip	What is the Normal Atmospheric Pressure ?
	Measuring atmospheric pressure			Conversation	Chart	1 Pascal = N/m ²
	Making Barometer			Conversation	Video clip	
	Problems - solutions			Conversation	Chart	
10.	Pressure at a depth 'h' in a liquid	131	132	Conversation	Chart	What is the pressure at h" depth ?
	Pressure difference at different depths in liquids			Conversation		Do you know about pressure applied on Sub marines ?
						What is the reason for different pressures at different depths in fluids ?

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11.	Force buoyancy	133	134	Conversation	Digital balance, Over flow jar, Water, Beaker, Different objects (Stone , Iron cube)	What is Archimedes principle ?
	Weight of water displaced by the immersed stone			Activity		Is the weight of displaced liquid always equal to the weight of object in liquid ?
12.	History of Archimedes - Story	134	135	Conversation	Photographs related to Archimedes, Video clips	What is floating law ?
13.	Pascal's principle	135	136	Conversation	Chart, Pascal law model by using Injection syringes, Saline tubes.....	What is Pascal's law ?
				Activity		Name one machine that works on Pascal's law ?



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