

LESSON PLAN (PERIOD -WISE)

SUBJECT: SCIENCE

GRADE: VIII

Chapter Number and Title of Chapter	CHAPTER 11, FORCE AND PRESSURE
Period Number	3 (approx. 40 min each)
Learning Objectives	▪ To understand the concept of pressure and its relation with area ▪ To learn about example of pressure in everyday life ▪ To study the effect of atmospheric pressure
Teaching Aids / Resources	PPT, knife, school bag, nail, hammer, balloon Concept Map
Previous Knowledge/ Curiosity Questions	• What is force? • Why do storm occur? • How nail is pushed in a wooden plank? • What happens when you try to cut vegetable with blunt knife? • Why do you feel uncomfortable while walking on sand with heels?
Announcement of topic	On finding the students unable to answer the last question, the teacher would announce that you have already studied about the concept of force in previous class, so today we will begin with the concept of pressure.
Teaching Methodology/ Strategy	Transaction would proceed in the following manner- Suggestive Methodologies: Brain Storming – • Why the nail do not insert in wooden plank when head of the nail is downward? • Why is it easy to cut vegetable with sharp knife than blunt knife? • Why porter keeps a cloth on his head while carrying luggage? • Why school bags have broad straps? Active learning- Active interaction of students with teacher through activities, Mind map, audio visual aids, research, project making will be there. Group learning- Students will have group discussions, Report making in pairs, Team quiz, experimenting. Questioning- Students will be asked different questions relating to concept of pressure exerted by liquids. Guided practice followed by Independent Practice- NCERT questions to be discussed in the classroom.

Content Obligatory Vocabulary (Keywords)	pressure, atmospheric pressure
Learning Concepts/ Teaching Points	• Pressure is force exerted upon unit area. • Pressure is inversely proportional to area on which force is applied. • Atmospheric pressure is the pressure exerted by the air surrounding us.
Hard Spots/ Focus Spots	Relationship between pressure and area.
Experiential Content	Students will see that air exerts pressure on inner wall of the balloon through activity.
Subject Enrichment Activities for Internal Assessment	Make a project file giving four different situations where pressure is helpful and four different situations where pressure can be harmful.
Recapitulation :	• What is pressure? • How is the pressure related to the area on which force is applied? • Why the sucker sticks to wall of window when pressed and is difficult to remove?

Assignment:	Write any two situations where area is increased to reduce pressure.
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