

**LESSON PLAN**  
**SUBJECT : SCIENCE**  
**CLASS: VIII**

**(BLOOM'S LEVELS AND SUB CATEGORIES TO BE PUT,  
ACCORDINGLY, THE TABLE TO BE FILLED)**

**TOPIC- FORCES AND PRESSURE**

**BRIEF DESCRIPTION-** force, changes caused by force, types of force, contact force, non-contact force, frictional force, electrostatic force, Gravitational force, restoring force, mass and weight. Pressure with its examples, pressure exerted by liquids, Atmospheric pressure.

**KPI DEFINITION :**

**KPI 01:** Students face problems in understanding, how to frame the units of any physical Quantity such as pressure, force etc.

**KPI 02 :** Students face problems in solving numerical pattern / mathematical calculations of the pressure, gravitational force(mg),and force and to solve its related Numerical

**OBJECTIVES:**

**I- Specific Objectives-**

**SP1** To give more practice to students in form of different pattern of questions.

**SP2** Proper Book Reading And points to Remember part is to be prepared for MAKING OUTLINE OF MCQ TYPES OF QUESTION.

**SP3** To discuss about the practical example related to topic so that students can be able to solve Case based study. this will help to connect the subject with daily life examples.

**SP4** To understand the practical Application of the topic because the same concept is useful in forces and laws of motion

**II -Behavioral Objectives**

### **To enable the students to-**

**B1** To develop interest in framing their own practical examples

**B2** To develop interest among students so that they can demonstrate their own activity related to any particular topic.

**B3** a students should identify the types of Laboratory instrument which is shown in demonstration such as spring balance

**B4** students should be able to learn about the basic concept, how to read and find error in reading of any particular instruments

### **PROCESS /ACTIVITIES**

**ACT 1** : to study types Forces such as frictional force by showing the concept of sliding friction and rolling friction(contact force)

**ACT 2** : to demonstrate the ball rolling down an inclined plane at a particular angle of elevation along smooth surface and rough surface for explaining rolling friction and role of nature of surface

**ACT 3** : to demonstrate spring balance and explain them the concept of weight.

**ACT 4** To demonstrate a magnet and iron fillings and to show non-contact force

**ACT 5** To demonstrate an activity to show that liquid pressure increases with depth by making small holes in a water bottle at different heights and to show at what distance water falls

### **ASSESSMENT:**

**A1** - Worksheet of Related topic should be given to the students

**A2** - Students can Also be assessed on the Basis of Activities that they performed / explained

**A3** - Self designed MCQ sheets to be given to students so that the student would be able to solve different pattern of questions.

### **DIGITAL CONTENT TO BE USED: (if applicable)**

To explain the topic properly in a visualized manner.

### **EXPECTED LEARNING OUTCOME-**

#### **Students will be able to:**

1. To get the complete understanding of the chapter.
2. Solve different typology of questions

3. Can connect the subject with their daily life examples
4. Can be able to learn the concept of force and pressure

<b>Placement of Objectives, Instructional Activities and Assessment</b>						
<b>Topic: FORCE AND PRESSURE</b>						
	<b>KNOWLEDGE</b>	<b>UNDERSTANDING</b>	<b>APPLICATION</b>	<b>ANALYSIS</b>	<b>SYNTHESIS</b>	<b>EVALUATION</b>
<b>Objectives</b>	SP2 /B1	SP1	SP3/SP4/B2	SP3/ SP4		
<b>Activities</b>	ACT 4	ACT 1 / B 3	ACT 2 / B4 / ACT 3 / ACT 4			
<b>Assessment</b>	A1	A2		A3		

**REVIEW OF THE LESSON PLAN**  
**(TO BE DONE WHEN THE LESSON GETS OVER)**

**Problems faced –**

**Success-**

**Failure-**

**Real Learning Outcomes**

**ELO-**

**Students' response/ participation**

**Teacher's Learning**

**TO INCORPORATE IN TERM 2-**