

## LESSON PLAN (PERIOD -WISE)

**SUBJECT: SCIENCE**

**GRADE: VIII**

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Chapter Number and Title of Chapter</b>     | CHAPTER 11, FORCE AND PRESSURE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Period Number</b>                           | 4 (approx. 40 min each)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Learning Objectives</b>                     | To learn about pressure exerted by liquids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Teaching Aids / Resources</b>               | empty bottle, water , PPT,<br>Concept Map<br>Additional Resources URL (Web links)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Previous Knowledge/ Curiosity Questions</b> | <ul style="list-style-type: none"><li>• What happens when you fill a balloon with water?</li><li>• Does a balloon burst when we fill excess water in it?</li><li>• Why the balloon enlarges in size on filling water in it?</li><li>• Does water exert equal pressure on all sides of balloon?</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Announcement of topic</b>                   | On finding the students unable to answer the last question, the teacher would announce that you have already studied about pressure exerted on objects in previous class, so today we will begin with the pressure exerted by liquids.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Teaching Methodology/ Strategy</b>          | <p>Transaction would proceed in the following manner-</p> <p><b>Suggestive Methodologies:</b></p> <p><b>Brain Storming –</b></p> <ul style="list-style-type: none"><li>• What would be the effect on pressure exerted by liquid on the walls if we close the lid of container?</li><li>• What would happen if pressure exerted by liquid becomes too much on the walls of a container?</li><li>• Why liquid comes out from all the sides of container at equal distance?</li></ul> <p><b>Active learning-</b><br/>Active interaction of students with teacher through activities, Mind map, audio visual aids, research,project making will be there.</p> <p><b>Group learning-</b><br/>Students will have group discussions, Report making in pairs, Team quiz, experimenting.</p> <p><b>Questioning-</b><br/>Students will be asked different questions relating to concept of pressure exerted by liquids.</p> <p><b>Guided practice followed by Independent Practice-</b><br/>NCERT questions to be discussed in the classroom.</p> |

|                                                              |                                                                                                                                                                                                      |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Is Content Obligatory Vocabulary (Keywords)</b>           | liquids                                                                                                                                                                                              |
| <b>Learning Concepts/ Teaching Points</b>                    | <ul style="list-style-type: none"> <li>• Liquids exert pressure on all sides of the container.</li> <li>• Liquids exert equal pressure on all sides of the container.</li> </ul>                     |
| <b>Hard Spots/ Focus Spots</b>                               | Students don't remember which activity to be written when asked to give activity to explain that liquid exerts pressure on sides.                                                                    |
| <b>Experiential Content</b>                                  | <p>Activities related to the following topics will be performed:</p> <p>Liquids exert pressure on all sides of the container.</p> <p>Liquids exert equal pressure on all sides of the container.</p> |
| <b>Subject Enrichment Activities for Internal Assessment</b> | Find out any five uses of pressure exerted by liquids and write in your project file. Also paste the related pictures depicting this pressure.                                                       |
| <b>Recapitulation :</b>                                      | <p>Does liquid exert pressure?</p> <p>How will you prove that liquid exerts equal pressure on all the sides of the container.</p>                                                                    |

|                    |                                                                                                 |
|--------------------|-------------------------------------------------------------------------------------------------|
| <b>Assignment:</b> | Write an activity to prove that liquid exerts equal pressure on all the sides of the container. |
|--------------------|-------------------------------------------------------------------------------------------------|