

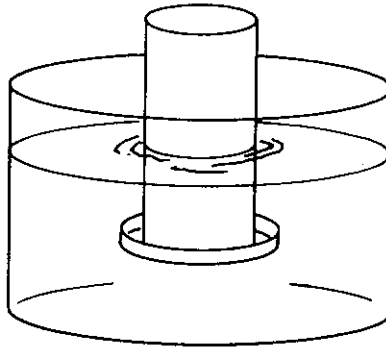
Pressure of a Liquid

A fluid exerts a pressure in all directions. If an object is placed in a bowl of water, pressure is exerted on all sides of the object. If, however, one side of the object is not in contact with the water, pressure is *not* equal on all sides. In this activity you will see what happens when the pressure of a liquid is not the same on all sides of a submerged object.

To do this activity you will need the following materials: a hollow tube, such as an orange juice can open at both ends, a metal jar lid, and a drinking glass.

Now follow the steps below and learn more about the pressure of a liquid.

1. Fill a drinking glass with water.
2. Fill a bowl or basin with water.
3. Place the metal jar lid under the hollow tube. Now, keeping both objects together, place them in the bowl or basin of water. See the accompanying figure for clarification.



4. Does the plate sink to the bottom? _____ Explain your answer. _____

5. Slowly pour water from the drinking glass into the hollow tube. At what point does the jar lid sink to the bottom? _____
