

Pressure

1. State Pascal's law.
2. Mention two factors that affect pressure due to liquid contained in a vessel.
3. Write any one difference between the law of floatation.
4. Mention a factor that can affect upthrust.
5. What is the role of density in the floatation of bodies?
6. Mention the factors that affect the upthrust applied on a body.
7. State Pascal's law. Name any two instruments based on Pascal's law.
8. Describe the experimental verification of Archimedes' principle.
9. How does a hydraulic garage lift function? Explain with an illustration.
10. Why does Ice float on water?
11. The size of an air bubble increases when it comes up and up in water why?
12. Why do deep-sea divers wear diving suits?
13. The weight of a piece of stone, when fully immersed in water, is 18N and it displaced 4N of water. What is the weight of the stone in the air?

14. A 15cm long cube made of oak floats in water with 10.5cm of its depth below the surface and with its sides vertical. What is the density of the cube?
[density of water= 100 Kg M^3 .