

CLASS VIII – SCIENCE

FORCE AND PRESSURE

1. What is the name of the instrument used to measure atmospheric pressure?
Answer: Barometer
2. What is the SI unit of pressure?
Answer: Pascal (Pa)
3. What is meant by atmospheric pressure?
4. What do you mean by magnitude?
5. A force of 100 N is applied on an area of 4 m². Compute pressure being applied on the area.
6. How does an applied force change the speed of an object?
7. What are the effects of force on an object?
8. What are the two types of forces? Name and define the examples of forces under each type.
9. List the characteristics of pressure exerted by a liquid.
10. On Lokesh's birthday Shreya was given charge to amuse children with some little tricks. Shreya stuck balloons to the wall by just rubbing them in her clothes. She bent the water stream from a tap without touching it. She did so by bringing big balloon near to the flowing water. All children were very happy on seeing this little magic.
 - (a) How do balloons stick to walls?
 - (b) How Shreya bent the water stream by bringing a big balloon near it and without touching it?
11. A blacksmith hammers a hot piece of iron while making a tool. How does the force due to hammering affect the piece of iron?

12. Name the forces acting on a plastic bucket containing water held above ground level in your hand. Discuss why the forces acting on the bucket do not bring a change in its state of motion.
13. A rocket has been fired upwards to launch a satellite in its orbit. Name the two forces acting on the rocket immediately after leaving the launching pad.
14. Find out the type of force acting on the below situations:
- (a) A coin or a pen falls to the ground when it slips out of your hand.
 - (b) A boat comes to rest if we stop rowing it.
 - (c) When a person lifts a bucket of water.
 - (d) Our body hair rises when we remove a woollen sweater in winter.
 - (e) Bits of iron get attracted to a magnet.
15. Porters place a round piece of cloth on their heads when they have to carry heavy loads. Why?