

Board – CBSE

Class – 8<sup>th</sup>

Topic – Force & pressure

1. Describe the state of motion of an object.
2. Write one point of difference between contact and non-contact force with an example.
3. Why do you think a ball rolling along the ground gradually slows down and comes to rest?
4. Why do you think pressure acts on the area of a surface?
5. 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.
6. In the following situations identify the agent exerting the force and the object on which it acts. State the effect of the force in each case.
  - (a) Squeezing a piece of lemon between the fingers to extract its juice.
  - (b) Taking out paste from a toothpaste tube.
  - (c) A load suspended from a spring while its other end is on a hook fixed to a wall.
  - (d) An athlete making a high jump to clear the bar at a certain height.
7. Define Pressure. Write the relation between pressure force and area. Name the instrument used to measure atmospheric pressure
8. A blacksmith hammers a hot piece of iron while making a tool. How does the force due to hammering affect the piece of iron ?
9. Give two examples of situations in which applied force causes a change in the shape of an object.
10. Why are caterpillar tracks used in battle tanks instead of tyres ?
11. Why is easier to hammer a sharp nail into wood than a blunt one ?
12. Describe an activity to show that 'a force can change the state of motion'.
13. Do you think sometimes application of force does not result in a change in the state of motion? Describe with an example.
14. Define muscular force. Give example.
15. What are the effects of application of force on an object? Explain.