



# PHYSICS

## NCERT - NCERT Physics(Hinglish)

### FORCE AND PRESSURE

#### Exercise

1. Give two examples each of situations in which you push or pull to change the state of motion of objects.



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**2.** Give two examples of situations in which applied force causes a change in the shape of an object.



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**3.** An archer stretches her bow while taking aim at the target. She then releases the arrow, which begins to move towards the target.

Based on this information fill up the gaps in the statements using the following terms.

muscular, contact, non-contact, gravity, friction, shape, attraction

To stretch the bow, the archer applies a force that causes a change in its\_\_\_\_\_



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**4.** An archer stretches her bow while taking aim at the target. She then releases the arrow, which begins to move towards the target.

Based on this information fill up the gaps in the statements using the following terms.  
muscular, contact, non-contact, gravity, friction, shape, attraction

The force applied by the archer to stretch the bow is an example of \_\_\_\_\_ force.



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5. An archer stretches her bow while taking aim at the target. She then releases the arrow, which begins to move towards the target.

Based on this information fill up the gaps in the statements using the following terms.

muscular, contact, non-contact, gravity, friction, shape, attraction

The type of force responsible for a change in the state of motion of the arrow is an example of a \_\_\_\_\_ force



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6. An archer stretches her bow while taking aim at the target. She then releases the arrow,

which begins to move towards the target.

Based on this information fill up the gaps in the statements using the following terms.

muscular, contact, non-contact, gravity, friction, shape, attraction

While the arrow moves towards its target, the forces acting on it are due to \_\_\_\_\_ and that due to \_\_\_\_\_ or air.



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7. In the situation identify the agent exerting the force and the object on which it acts. State the effect of the force in each case.

Squeezing a piece of lemon between the fingers to extract its juice.



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8. In the situation identify the agent exerting the force and the object on which it acts. State

the effect of the force in each case.

Taking out paste from a toothpaste tube.



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**9.** In the situation identify the agent exerting the force and the object on which it acts. State the effect of the force in each case.

A load suspended from a spring while its other end is on a hook fixed to a wall.



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**10.** In the situation identify the agent exerting the force and the object on which it acts. State the effect of the force in each case.

An athlete making a high jump to clear the bar at a certain height.



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**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?



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**12.** An inflated balloon was pressed against a wall after it has been rubbed with a piece of synthetic cloth. It was found that the balloon sticks to the wall. What force might be responsible for the attraction between the balloon and the wall?



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**13.** 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.



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**14.** 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 ( Ignore the frictional force due to air resistance )



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**15.** When we press the bulb of a dropper with its nozzle kept in water, air in the dropper is seen to escape in the form of bubbles. Once we release the pressure on the bulb, water gets filled in the dropper. The rise of water in the dropper is due to :

A. pressure of water.

B. gravity of the earth.

C. shape of rubber bulb

D. atmospheric pressure

**Answer: D**



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## Exercise Fill In The Blanks In The Statement

1. To draw water from a well we have to \_\_\_\_\_ at the rope.



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2. A charged body \_\_\_\_\_ an uncharged body towards it.



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3. To move a loaded trolley we have \_\_\_\_\_ it.



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4. The north pole of a magnet \_\_\_\_\_ the north pole of another magnet.



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