

1) What are the effects of force?

Ans → The effects of force are:-

- ① Force can move a object originally at rest.
- ② Force can stop a moving object.
- ③ Force can make a moving body to move faster.
- ④ Force can slow down a moving body.
- ⑤ Force can change the direction of a motion of a moving body.
- ⑥ Force can change the shape or size of the body.

2) Differentiate contact and non contact force.

Contact force	Non contact force
① The force which acts on bodies by making an actual contact, is called contact force.	① Forces which act on bodies with no contact with them are called non contact forces or forces from distance.
② Ex- Frictional force, Muscular force etc.	② Ex- Gravitational force, Magnetic force etc.

3) Differentiate mass and weight.

Ans) Mass

① The mass of a body is the quantity of matter contained in it.

Weight

① Force exerted by the mass of any object due to gravitational force is called weight of that object.

4) Define rolling friction with one example.

Ans) When an object rolls over a surface, the force which opposes the rolling motion of the object is called rolling friction.

Ex - When we ride a bicycle, the force that opposes the motion of the bicycle is the rolling friction.

5) What do you mean by normal force?

Ans) The normal force is the component of a contact force that is perpendicular to the surface that an object contacts.