

Ch-3 Force

classmate

Date

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1) What are the effects of force?

Ans The effects of force are:-

- i) It can move an object.
 - ii) It can stop a moving object.
 - iii) It can increase the speed of the object.
 - iv) It can decrease the speed of the object.
 - v) It can change the direction of the object.
 - vi) It can change the shape of the object.
- 2) What do you mean by normal force?

Ans The force that surfaces exert to prevent solid object from passing through each other is known as normal force.

3) Differentiate mass and weight.

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

The weight is the measure of gravity acting on the body. ~~is called weight.~~

4) Differentiate contact and non-contact force.

Ans

Contact force

Non contact force:

i) The force on two bodies that acts when that two bodies are in contact

The force on two bodies that acts when that two bodies aren't in contact.

ii) Surface tension, air resistance and friction come under contact force.

Gravitational forces, magnetic force and electrostatic force come under non-contact force.

5) Define rolling friction with one example.

Ans When an object begins to roll on a surface, the force exerted by the surface is known as rolling friction. Example: - Ball bearings are used between the hubs and the axles of ceiling fan and bicycles.