

9/10/21

ch-3
Force

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Homework Questions.

1. What are the effects of force?

Ans. The effects of force are:

- i) It can push or pull an object.
- ii) It can stop a moving body.
- iii) It can make a moving body to move faster.
- iv) It can slow down a moving body.
- v) It can change the direction of motion of a body.
- vi) It can change the shape or size of a body.

2. Differentiate contact and non-contact force.

Ans. Contact force \rightarrow The force which acts on bodies by making an actual contact, is called contact force.

Ex \rightarrow Muscular force, Frictional force.

Non-Contact force \rightarrow Forces which act on bodies with no contact with or contact with them are called non-contact forces or forces from a distance.

Ex \rightarrow Gravitational force, Frictional force.

3. What do you mean by normal force?

Ans Force is a physical ~~do~~ cause that changes or may tend to change the state of rest or the state of motion of an object. The S.I unit of force is, Newton.

4. Differentiate mass and weight.

Ans Mass is a measure of how much force it will take to change that path. It depends on how much matter, there is in an object. Whereas, weight is the force ~~at~~ with which the Earth attracts or pulls it towards the centre. It depends on acceleration due to gravity.

5. Define rolling friction with one example.

Ans - The minimum force require to roll a body on a surface is called the force of rolling friction. For example, the ball bearings are used between the hubs and axles of a ceiling fan and a ~~big~~ bicycle. Also vehicles like cars, trucks, trolleys, etc. are provided.

with wheels to make them move with less force.