

Class-VI

Subject: Physics

Date: 13.5.24

Chapter-3

Force

Teacher: Nimrita

Good Morning students!

This lesson is of Class-VI for the subject of Physics, Chapter-3, 'Force', of your text book 'Concise Physics', Selina Publications. It is being submitted to you on: 13 May, 2024.

In the last class, we studied about types of forces. Today, we will study about Non-Contact forces in detail.

Non contact forces:-

a) Gravitational force:-

It is force of attraction between two heavenly bodies.

b) Electrostatic force:-

The force of attraction or repulsion between two charged bodies is known as electrostatic force.

c) Magnetic force:- It is the force of attraction/repulsion between the poles of two magnets at a distance.

Force of friction: This force opposes the motion of a body.

Effects of friction:- (Disadvantages)

- 1.) Friction opposes the motion of the body.
- 2.) It produces heat.
- 3.) It causes wear and tear.

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Kinds of friction:-

- 1.) Static friction:- It is the maximum force exerted on a body by the surface so long as it remains stationary.
- 2.) Sliding friction:- It is the minimum force required to slide a body on a surface.
- 3.) Rolling friction: It is the minimum force required to roll a body on the surface.

Ways of Reducing friction:-

- By making the surfaces smooth
- By using lubricants / ball bearings.
- By streamlining.

Ways of Increasing friction:-

- By making the surfaces rough and dry.
- By increasing the weight of the body.

Friction is a necessary evil. I am ending today's topic. Kindly do questions 15, 20, 21, 22, 23, 24, 27, 28 and 30 in copy.
Thank you!

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