

Class: IV

Sub: Science

Topic: Friction

Date: 09.12.2024

Good Morning students

This chapter is for class IV, Topic - Friction as a force and is being submitted to you on 09.12.2024.

Ch-12

Friction as a Force

- Friction or frictional force acts on moving objects and slows down their motion or stops them.
- The friction is more on rough surfaces and less on smooth surfaces.

Uses of friction

- We are able to write because of the friction between the paper and the pen or pencil.
- Friction helps vehicles to move on the road without skidding.
- We can hold things because of friction.

Harmful effects of friction

- The soles of our shoes and tyres of vehicles wear out due to friction.
- Friction causes wear and tear of machine parts.
- Due to friction, more power is used in machines and more fuel in vehicles.

Methods to reduce friction

There are some methods by which friction can be reduced and working of objects can be made easier.

- Oiling the moving parts of machines.
- Using powder between two surfaces.
- Using wheels and rollers
- Using ball bearings and roller bearings reduces friction.

Home - assignment :

- Find out why do the shoes of athletes have extra rubber spikes on their shoes.