

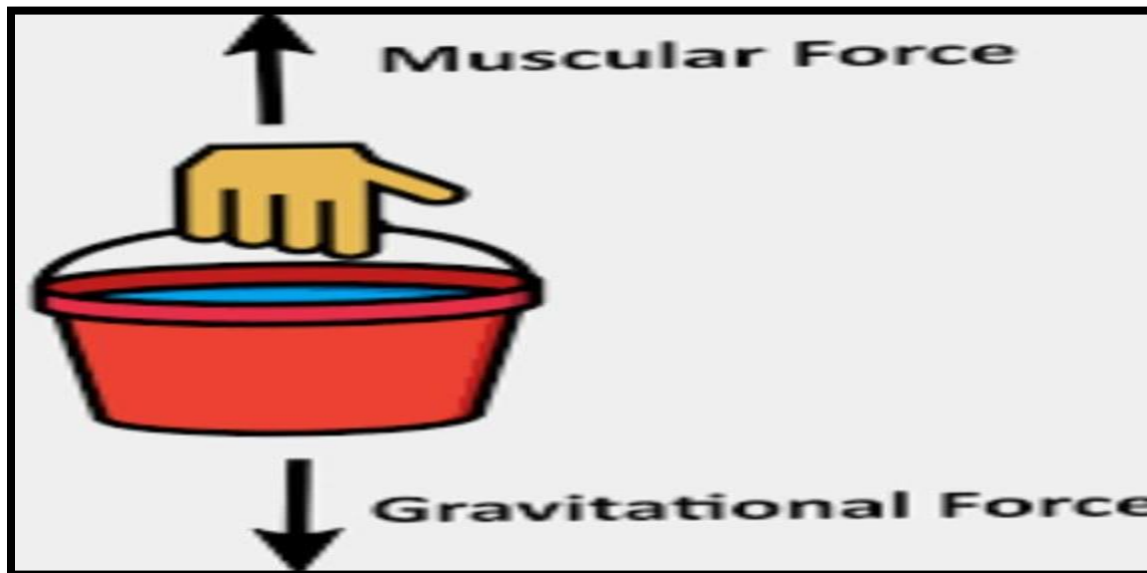
CLASS :6

SUBJECT : PHYSICS

TOPIC. : FORCE

What is Force?

A push or pull on an object is called Force.



- **Example:**

Pushing a table ,kicking a football

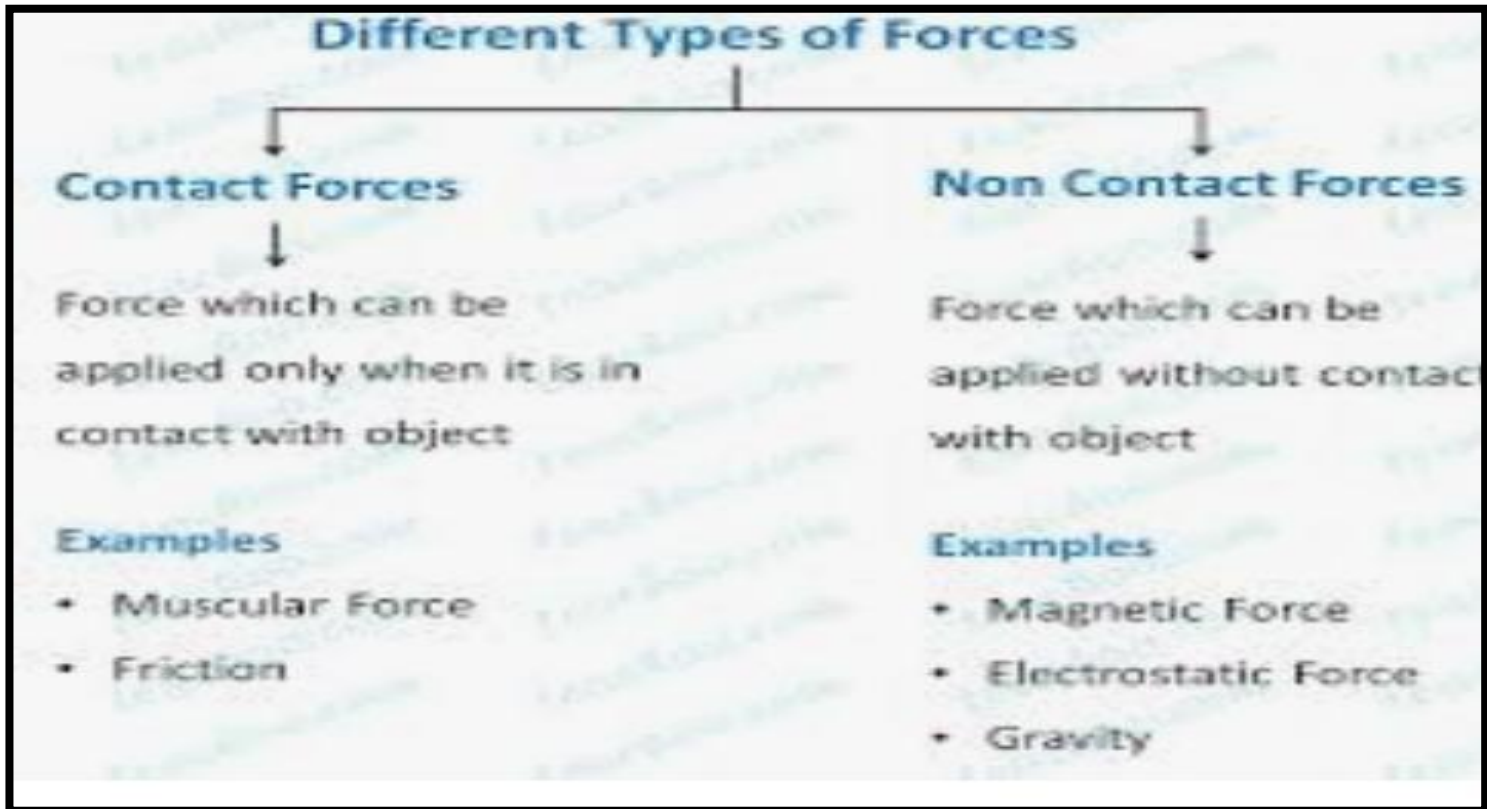
- The concept of Force gives us the quantitative description of the interaction between two bodies or between a body and the surrounding.
- Force does not have any effect on mass of a body because mass is an inherent property of a body.

The Effects of a Force

- It can make a stationary object move
- It can make a moving object speed up
- It can change the direction a of a moving object
- It can slow down a moving object
- It can stop a moving object
- It can change the shape of an object

Types of Forces

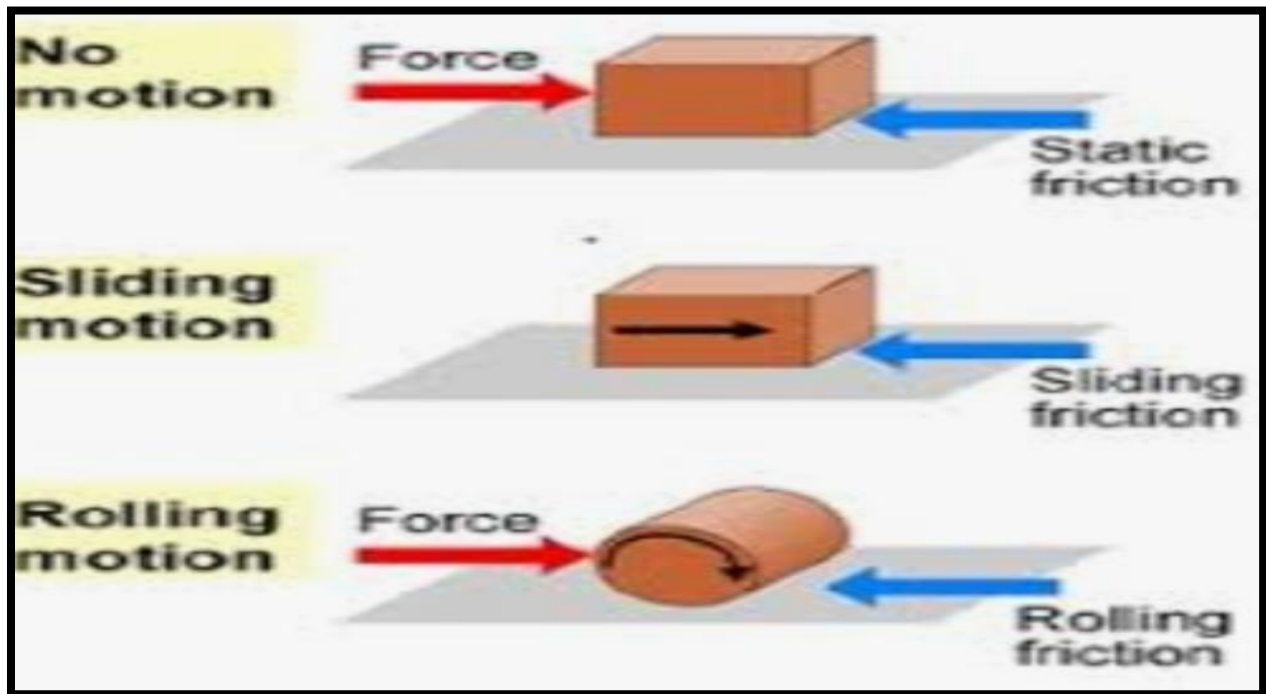
1) Contact force 2) Non- contact force



● FRICTION

It is defined as the opposing force which comes into play whenever there is relative motion between two bodies.

- Types of Friction
 - 1) Dry or contact friction
 - 2) Internal or wet Friction



- What is the disadvantage of Friction.

1) It is a nonconservative force hence there is a loss of energy to overcome friction.

2) It is responsible for wear and tear of various machine parts.

3) Friction decreases efficiency of machines.

- What are the advantages of Friction?

1) Friction helps us to walk, tie a knot, prevents slipping, to write on boards etc.

Worksheet

1. Name the term used for liquid friction.
2. Define static friction.

3. Give two uses of friction
4. When a force is applied to a body in the same direction what are the changes observed?
5. What is the speed of the body when it is in the state of rest?
6. Define friction.
7. Why just sports not affect the mass of a body?
8. if more than two forces act on a body that the net force acting on the body is obtained by what method?

Complete all the exercises at the end of the chapter.