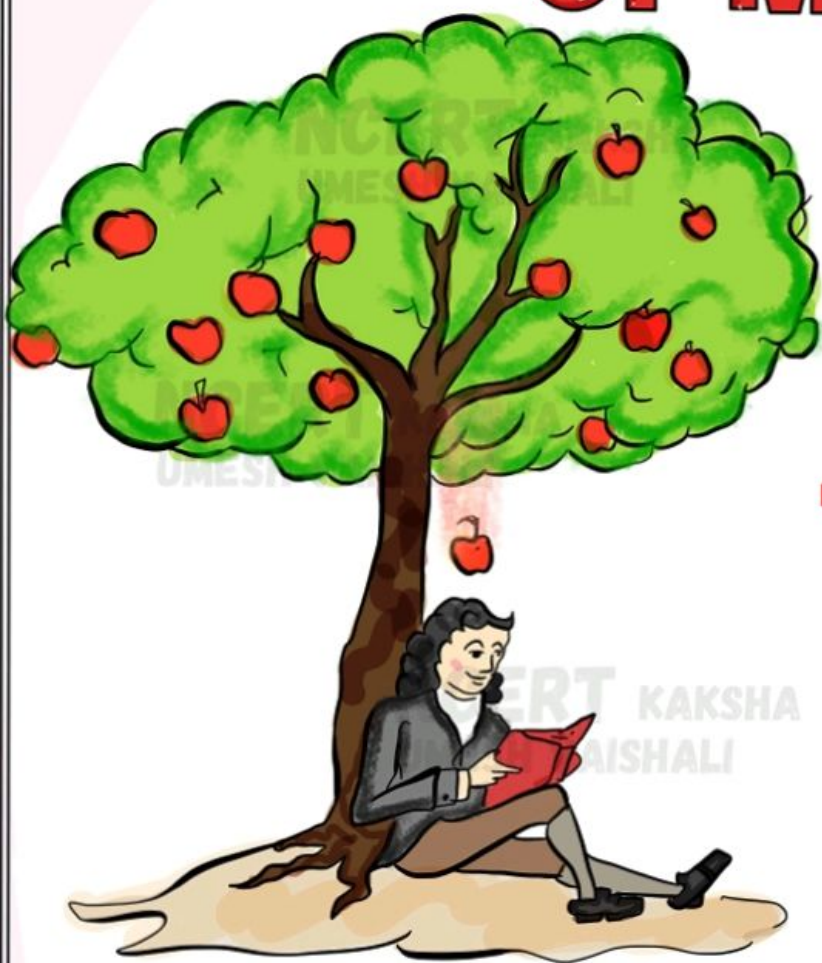


Chapter - 8

FORCE AND LAWS OF MOTION



➔ What is force ?

The push or pull on an object with mass that causes it to change its velocity.

➔ How to identify a force if applied, OR what does a Force change ?

• Speed • Direction • Shape

➔ Force has both magnitude and direction, making it a vector quantity.

➔ It is measured in the SI unit of Newton (N).

➔ It is represented by the symbol F .

➔ Balanced

- On the other hand, if we catch a ball without proper technique, we can hurt ourselves because then, the time is very less.
- Hence force we feel is quite high.

Newton's Third Law (Law of karma)

- * Every action has an equal and opposite reaction.
- These two forces are always equal in magnitude but opposite.
- These forces act on different objects and never on the same object.
- There is a pair of forces and not just one force.
- The two opposing forces are also known as action and reaction forces.
- A single force never acts.