

4 - Force

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* Kinematics deals with the motion of particle or bodies without considering the cause of motion.

* The cause of motion i.e. Force plays very important role in our day to day life.

* In this chapter we shall be studying the effects produced by the forces.

* What is meant by the force?

→ Force is ~~effort~~ in the form of push or pull, required to move a body or stop a moving body.

* The exact relationship between a Force acting on a body & the motion of body is governed by the Famous Newton's Laws of motion.

* What is the Newton's First law?

→ Newton's First Law states that every body continues to be in a state of rest or of Uniform motion along straight line, unless it is acted upon by ~~the~~ an external unbalanced Force.

* This means that a body on its own can not change the state of rest or of Uniform motion along a straight line.