

LAWS OF A MOTION

NEWTON'S FIRST LAW OF MOTION

1. FIRST LAW OF MOTION

According to this law, everybody continues in its state of rest or motion in a straight line unless it is compelled by external force to change that state.

1. This law is also called law of inertia. Inertia is a virtue by which a body opposes the state of rest or motion.
2. Force is such a factor, which is essential for change in translatory motion of a body.
3. The first law of motion defines the force.

Ex.

1. To remove the dust particles from a cloth by shaking it
2. Banking of the passengers (towards the motion of bus), sitting in a bus on applying the sudden brakes.