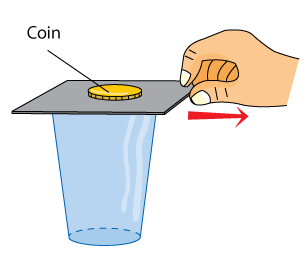
**Inertia**



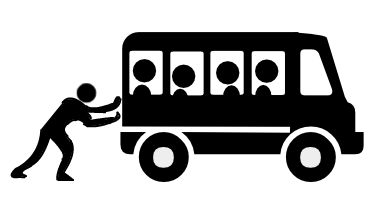
The tendency of an object to resist being moved or, if the object is moving, to resist a change in speed or direction.

**Law of Inertia**



Newton’s first law of motion, states that an object will not move or change its motion unless it is acted upon by an unbalanced force. In addition, a moving object will stay in motion with the same velocity, or speed in a particular direction, unless an unbalanced force changes its speed or direction.

**Law of Force and Acceleration**



Newton’s second law of motion, states that the acceleration of an object depends on the mass of the object and the net force applied.

**Law of Action-Reaction**



Newton’s third law of motion, states that whenever one object applies a force on a second object, the second object applies an equal and opposite force on the first object.

**Sir Isacc Newton**



Was an English natural philosopher who laid the foundations for modern physical science. His work on gravity led him to develop his three laws of motion.