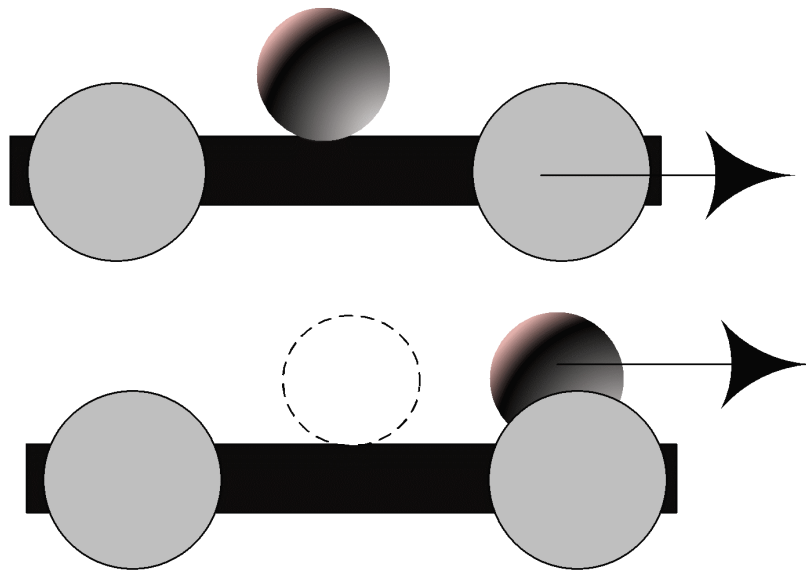


1. Explain any one activity with diagram to prove the law of inertia

Answer

The law of inertia states that that objects at rest remain at rest and objects in motion continue in a straight line unless acted upon by a net external force.

1. A ball on a floor of a car is at rest with respect to the vehicle when it moves unaccelerated in a straight line. If the car will break, the ball will continue to move straight forward.



2. A car and a ball are at rest. If the car will start, the ball will move backward on a floor, being stationary in an inertial frame at rest with respect to the ground.

