

Mini Glossary

inertia: tendency of an object to resist a change in motion.

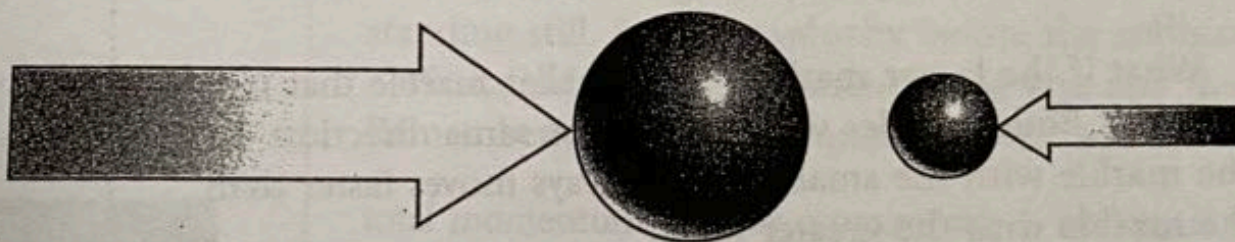
law of conservation of momentum: states that the total momentum of objects that collide is the same before and after the collision

mass: amount of matter in an object

momentum: the measure of how hard it is to stop an object

1. Review the terms and their definitions in the Mini Glossary. Explain in complete sentences what affects the inertia of an object.

2. The sketch below shows two marbles. The arrows show the size and the direction of the momentum of the two marbles. Draw arrows in the space below that show what will happen to these two marbles because of the law of conservation of momentum when they collide.



3. How can a football game be used to explain inertia and momentum?