

CENTRIPETAL

Meaning: Centripetal refers to a force or acceleration that acts toward the center of a circular path, maintaining an object's circular motion.

1. The centripetal force kept the satellite in a stable orbit around the planet.
2. In a car making a sharp turn, the centripetal acceleration is directed towards the center of the curve.
3. During the roller coaster ride, riders experience a thrill as centripetal forces push them into their seats.
4. The centripetal nature of the forces involved allows the planets to maintain their orbits around the sun.
5. To maintain a circular path, an object requires a centripetal force acting perpendicular to its direction of motion.
6. Understanding centripetal motion is essential in fields like astronomy and engineering.
7. The physics professor illustrated centripetal motion with a simple experiment using a ball on a string.
8. Centripetal acceleration increases as the speed of the object in circular motion increases.
9. Without centripetal force, vehicles would slide off the road when navigating a curve.
10. In gymnastics, the centripetal forces help athletes perform complex aerial maneuvers safely.

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