

Name _____

The Marvels of Circular Motion

Multiple Choice Questions

1. What is centripetal force?
 - a) The force pushing objects outward in circular motion
 - b) The force that resists changes in motion
 - c) The force that keeps objects moving in a circular path
 - d) The force that pulls objects toward the center of the Earth

2. What is centrifugal force?
 - a) The force that pulls objects toward the center of a circle
 - b) The force that resists changes in motion
 - c) The force that pushes objects outward in circular motion
 - d) The force of gravity

3. How does centrifugal force relate to centripetal force in circular motion?
 - a) Centrifugal force and centripetal force are the same thing.
 - b) Centrifugal force is the result of centripetal force.
 - c) Centrifugal force opposes centripetal force.
 - d) Centrifugal force has no relation to centripetal force.

4. What role does gravity play in circular motion?
 - a) Gravity creates centrifugal force.
 - b) Gravity opposes centripetal force.
 - c) Gravity provides the centripetal force to keep objects in orbit.
 - d) Gravity has no effect on circular motion.

5. Which of the following is NOT an example of circular motion in everyday life?
 - a) A spinning top
 - b) A planet orbiting the sun
 - c) A car taking a sharp turn
 - d) A rocket launching into space

