

Name \_\_\_\_\_

## The Marvels of Circular Motion

### Short Answer

1. Provide an example of centripetal force in action in your daily life and explain how it works.
2. Explain the misconception surrounding centrifugal force and why it is often misunderstood.
3. How do centripetal and centrifugal forces create a balance that allows objects to move in a circle without flying off or collapsing inward?
4. Describe the role of gravity in keeping celestial bodies like planets in their orbits.
5. Think of an amusement park ride that relies on centripetal force for safety. Describe how this ride works and keeps passengers safe.

