

Name \_\_\_\_\_

## Orbiting the Sun: The Dance of Planets in Our Solar System

### Multiple Choice Questions

1. What is the main force that causes planets to orbit the Sun?
  - a) Magnetism
  - b) Inertia
  - c) Solar wind
  - d) Gravity
  
2. Why don't planets crash into the Sun despite the Sun's gravitational pull?
  - a) The Sun's gravity is weak.
  - b) The planets have strong shields.
  - c) Inertia balances the gravitational pull.
  - d) The Sun's gravity pushes the planets away.
  
3. Who described the laws governing planetary motion in the early 17th century?
  - a) Isaac Newton
  - b) Johannes Kepler
  - c) Galileo Galilei
  - d) Albert Einstein
  
4. According to Kepler's First Law of Planetary Motion, what shape do planetary orbits typically have?
  - a) Perfect circles
  - b) Ellipses
  - c) Parabolas
  - d) Hyperbolas
  
5. What is the significance of Kepler's Law of Equal Areas?
  - a) It explains why planets have moons.
  - b) It relates a planet's distance from the Sun to its orbital speed.
  - c) It describes the shape of planetary orbits.
  - d) It explains why planets have different colors.

