

Section Quiz

Section: Gravity and Motion

Match the correct description with the correct term. Write the letter in the space provided.

_____ 1. the path of one object around another in space

_____ 2. an unbalanced force that causes objects to move in a circular path

_____ 3. the motion of a body when only the force of gravity is acting on the body

_____ 4. the curved path of a thrown object near Earth's surface

_____ 5. the constant velocity of a falling object when the force of gravity is balanced by air resistance

_____ 6. the force that opposes the motion of objects through air

a. terminal velocity

b. free fall

c. projectile motion

d. centripetal force

e. air resistance

f. orbit

Write the letter of the correct answer in the space provided.

7. If a baseball and a cannonball are dropped from the same height at the same time, and there is no air resistance, which ball will hit the ground first?

- The cannonball lands first.
- The baseball lands first.
- The balls land at the same time.
- The ball with the larger volume lands first.

8. What feature of an object does NOT affect air resistance?

a. its size	c. its shape
b. its chemical properties	d. its speed

9. Why do astronauts in space appear weightless?

- There is no gravity in space.
- Air resistance opposes gravity.
- They have no mass in space.
- They are in free fall.

10. In what directions is a projectile accelerated?

a. both vertically and horizontally	c. vertically upward
b. vertically downward	d. horizontally forward