

Assessment

Section Quiz

Section: Gravity and Motion

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

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| _____ | 1. the path of one object around another in space | a. terminal velocity |
| _____ | 2. an unbalanced force that causes objects to move in a circular path | b. free fall |
| _____ | 3. the motion of a body when only the force of gravity is acting on the body | c. projectile motion |
| _____ | 4. the curved path of a thrown object near Earth's surface | d. centripetal force |
| _____ | 5. the constant velocity of a falling object when the force of gravity is balanced by air resistance | e. air resistance |
| _____ | 6. the force that opposes the motion of objects through air | 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?
- a. The cannonball lands first.
 - b. The baseball lands first.
 - c. The balls land at the same time.
 - d. The ball with the larger volume lands first.
- _____ 8. What feature of an object does NOT affect air resistance?
- a. its size
 - b. its chemical properties
 - c. its shape
 - d. its speed
- _____ 9. Why do astronauts in space appear weightless?
- a. There is no gravity in space.
 - b. Air resistance opposes gravity.
 - c. They have no mass in space.
 - d. They are in free fall.
- _____ 10. In what directions is a projectile accelerated?
- a. both vertically and horizontally
 - b. vertically downward
 - c. vertically upward
 - d. horizontally forward