



Directions: Complete the paragraph by filling in the blanks using the terms listed below.

acceleration
negative

velocity
positive

direction
time

Acceleration occurs when an object's 1. _____ changes. When an object speeds up, it has 2. _____ acceleration. When an object's final velocity is less than its initial velocity, however, it has 3. _____ acceleration. An object that is changing 4. _____ is accelerating, even if its speed remains the same. Acceleration can be calculated by dividing the change in velocity by the 5. _____ interval in which the change occurred. The SI unit of 6. _____ is m/s^2 .

Directions: Match the terms in Column II with the descriptions in Column I. Write the letter of the correct term in the blank at the left.

Column I

- _____ 7. result in a net force of zero
- _____ 8. the tendency of an object to resist any change in its motion
- _____ 9. cause an object's velocity to change
- _____ 10. a push or pull that can change an object's motion
- _____ 11. states that an object at rest will remain at rest unless acted upon by a net unbalanced force
- _____ 12. the combined force on an object

Column II

- a. force
- b. net force
- c. unbalanced forces
- d. balanced forces
- e. inertia
- f. Newton's first law of motion