

Acceleration and Motion and Forces Review

acceleration

velocity

direction

negative

positive

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

Matching

_____ 7. results in a net force of zero

a. force

_____ 8. the tendency of an object to resist any change in motion

b. net force

_____ 9. cause an object's velocity to change

c. unbalanced forces

_____ 10. a push or pull that can change an object's motion

d. balanced forces

_____ 11. states that an object at rest will remain at rest unless acted upon by a net unbalanced force

e. inertia

_____ 12. the combined force on an object

f. Newton's first law of motion