

Name _____

Newton's Second Law Unveiled

Multiple Choice Questions

1. What does Newton's second law of motion describe?
 - a) The relationship between force and mass
 - b) The relationship between velocity and acceleration
 - c) The relationship between energy and motion
 - d) The relationship between time and distance

2. According to Newton's second law, what happens to an object's acceleration when the applied force increases?
 - a) The acceleration decreases.
 - b) The acceleration remains constant.
 - c) The acceleration increases.
 - d) The acceleration is not affected by force.

3. If you apply the same force to two objects with different masses, which object will experience greater acceleration?
 - a) The object with greater mass
 - b) The object with smaller mass
 - c) Both objects will accelerate equally.
 - d) It depends on the direction of the force.

4. What is the unit of force?
 - a) Kilogram (kg)
 - b) Meter per second squared (m/s^2)
 - c) Newton (N)
 - d) Joule (J)

5. How does friction affect an object's acceleration?
 - a) Friction has no effect on acceleration.
 - b) Friction always increases acceleration.
 - c) Friction always decreases acceleration.
 - d) Friction can either slow down or prevent acceleration.

