

Forces and Motion Quiz

Physics · Practice Test · 9 Questions

1. What is the SI unit of force?

- A) Newton
- B) Joule
- C) Watt
- D) Pascal

2. Which law states that an object at rest stays at rest unless acted upon by a force?

- A) Newton's First Law
- B) Newton's Second Law
- C) Newton's Third Law
- D) Law of Gravitation

3. What is the force that opposes motion between two surfaces in contact?

- A) Friction
- B) Gravity
- C) Tension
- D) Normal Force

4. What is the acceleration due to gravity on Earth (approximately)?

- A) 9.8 m/s^2
- B) 1.6 m/s^2
- C) 0 m/s^2
- D) 29.4 m/s^2

5. Which of Newton's laws relates force, mass, and acceleration?

- A) Newton's Second Law
- B) Newton's First Law
- C) Newton's Third Law
- D) Law of Universal Gravitation

6. What is the term for the measure of an object's resistance to acceleration?

- A) Inertia
- B) Momentum
- C) Velocity
- D) Energy

7. If a net force is applied to an object, what will happen to its motion?

- A) It will accelerate
- B) It will move at constant speed
- C) It will stop
- D) It will remain at rest

8. What is the force of attraction between any two objects with mass?

- A) Gravity
- B) Friction
- C) Tension
- D) Normal Force

9. What is the property of a moving object that has mass and velocity?

- A) Momentum
- B) Inertia
- C) Energy
- D) Power