

Forces and Motion Quiz

Physics · Answer Key · 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