

Physics Quiz

Name _____

1) True or False: balanced forces will change and objects motion?

2) Which of Newton's laws is often called the law of constant acceleration?

3) True or False: The mass of the pendulum changes the period

4) All simple machines work on the same principle, they exchange one thing for another. What do they exchange?

5) Which of Newton's laws can be expressed as $F = ma$

6) Give a simple definition of a force

7) True or false: The length of a pendulums swing will change the period.

8) Which of Newton's laws states that for every action there is an equal and opposite reaction?

9) What constant force pushes an object toward the center of a circular path

10) How many significant figures are in 0.04352

11) What is a state of balance in which forces equally counter one another called?

12) Which force slows down or stops movement of one object in contact with another?

13) What is the name of the force that holds nuclei together?

14) One of Newton's laws states that there is an equal and opposite reaction for every applied force. So if a bullet explodes its charge inside a gun and the bullet flies out the barrel of the gun fast enough to blow through a brick wall, why doesn't the gun itself move equally fast in the opposite direction of the bullet. Verbally explain the law that justifies the motion of the gun.

