Physical Science Chapter 3 Reading Quiz

Name:

- 1. What is the SI unit of force?
- 2. If an object has a mass of 12kg and an acceleration of 12 m/s/s, what is its force?
- 3. What is the formula for Newton's second law of motion?
- 4. What is the force that prevents two surfaces from sliding past one another?
- 5. ______ are the source of friction.
- 6. While a surface might look and even feel smooth, they can be rough at the ______ level.
- 7. What are breaking and reforming again as an object slides across a floor?
- 8. Air resistance causes objects to fall with different _____ and
- 9. Anything that has mass is attracted by the force of ______.
- 10. How many forces occur naturally?
- 11. The gravitational force between two objects ______ as the distance between the objects increases.
- 12. The location of ______ was determined by the use of Newton's laws of motion and the law of universal gravitation.
- 13. _____ exerts a gravitational force on you.
- 14. How much less is gravity on the moon compared to gravity on Earth?
- 15. Objects in the space shuttle seem to be floating because they are ______ with the same acceleration.
- 16. Anything that is thrown or shot through the air is called a ______
- 17. When a car rounds a curve on a highway, a ______ force must be acting on the car to keep it moving in a curved path.
- 18. The moon would move in a straight line except that ______ gravity keeps pulling it.
- 19. To every action force there is an equal and opposite ______ force.
- 20. Astronauts who stay out in space for extended periods of time may develop
- 21. The rocket engine exerts a force on gases and causes them to escape out of the ______ of the rocket.
- 22. A moving object has a property called ______ that is related to how much force is needed to change its motion.
- 23. The ______ of an object will not change unless it's mass, velocity, or both change.
- 24. ______ is the change in velocity divided by the time it takes for the change to occur.
- 25. Which of Newton's laws were used in the Apollo 11 mission (or any space mission for that matter)?