

SCA Science 6 – Study Guide

Chapter 9

Name: _____

I. Fill in the Blank: Write the correct answer in the blank

acceleration	friction	momentum	motion	velocity
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- _____ 1. the change of an object's position
- _____ 2. a force that keeps objects from moving against other objects
- _____ 3. determined by the mass and velocity of an object
- _____ 4. the speed of a moving object in a given direction
- _____ 5. occurs whenever an object speeds up, slows down, or changes direction
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- _____ 6. When a force moves an object a certain distance, _____ is done.
- _____ 7. Any object that makes work easier is called a _____.
- _____ 8. Wedges and screws are two simple machines that actually consist of _____.
- _____ 9. The decrease in effort that is needed to move an object is called a _____ advantage.

II. Identification: Write the letter of the correct answer. Answers may be used more than once.

- A. Force is equal to the mass of an object and its acceleration.
- B. When one object exerts a force on another object, the second object reacts by exerting an equal force back on the first object.
- C. An object at rest tends to stay at rest, and an object in motion tends to stay in motion with the same direction and speed.

_____ 10. First Law of Motion

_____ 11. Second Law of Motion

_____ 12. Third Law of Motion

_____ 13. Ruth likes to play softball and go bowling. She uses less force to throw a softball than she uses when she rolls a bowling ball.

_____ 14. Dad slammed on the brakes when a ball bounced out in front of our car. My sister's doll that had been on the back seat ended up on the floor.

III. Matching: Write the letter of the correct answer

A. inclined plane	B. lever	C. pully
D. screw	E. wedge	F. wheel and axel

_____ 15. doorknob

_____ 16. flagpole

_____ 17. knife blade

_____ 18. ramp

_____ 19. jar lid

_____ 20. broom