Name	Date



Motion

Read each question and circle the correct answer.

neau	each question and circle the correct answer.		
1. P	otential energy is based on an object's		
Α	. gravity.	C.	position.
В	. mass.	D.	kinetic.
2. T	ne energy of motion is called energy.		
Α	. potential	C.	chemical
В	. electrical	D.	kinetic
3. A	force that opposes motion between two touchi	ng s	surfaces is called:
Α	. friction	C.	speed
В	. acceleration	D.	direction
4. T	ne rate an object is moving relative to a reference	e p	oint is its
Α	. velocity.	C.	deceleration rate.
В	. speed.	D.	mechanical potential energy rate.
5. T	ne speed at which an object is moving in a spec	ific	direction is its
Α	. speed.	C.	velocity.
В	. acceleration rate.	D.	mechanical potential energy rate.
6. A	n object's average speed is found by dividing th	ne to	otal distance the object travels by the tota
Α	. mass of the object.	C.	specific gravity of the object.
В	. acceleration of the object.	D.	time it takes to move that distance.
7. N	ewton's First Law of Motion states that an obje	ct ir	n motion tends to stay in motion unless it
Α	. starts to decelerate.	C.	is acted upon by another force.
В	. runs out of kinetic energy.	D.	approaches the speed of light.

8. Newton's Second Law of Motion says that the acceleration of an object depends on the object's mass and the				
A. equation $E = MC^2$.	C. negative acceleration factor.			
B. amount of force applied to the object.	D. amount of atoms the object has.			

9. Newtons Third Law of Motion states that for every action there is an equal and opposite reaction. Which of these illustrates Newton's Third Law?

- A. Two students of similar mass run into each other. They bounce off each other when they collide.
- B. Two students of similar mass run side by side into a wall and punch holes of equal size before emerging on the other side.
- C. Two students of similar mass run in opposite directions, but one accelerates at twice the rate of the other.
- D. Two students of similar mass run at the same speed in opposite directions on a track. They will collide with 400 Newtons of force in 400 meters.

10. A device which makes work easier is called a

- A. magnet.
- B. newton.

- C. simple machine.
- D. force.