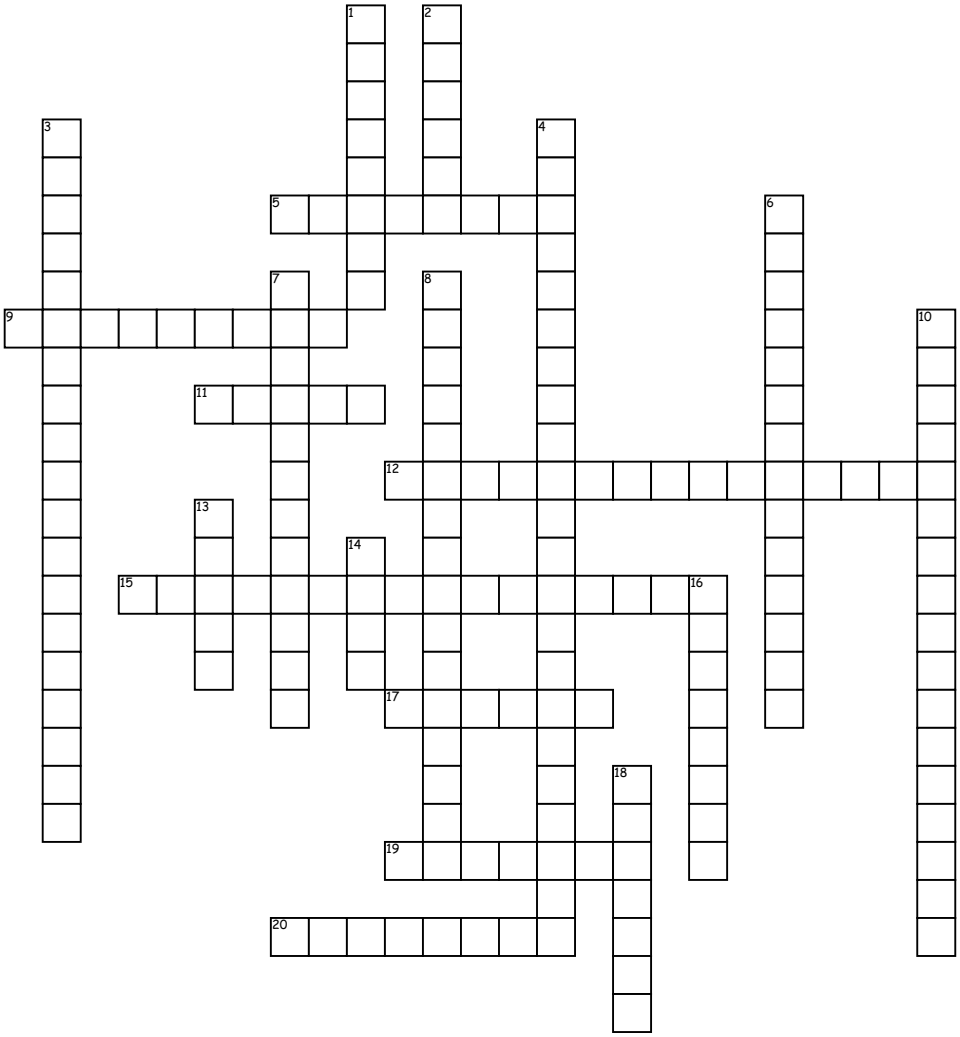
Name: _____ Date: _____ Period: _____

crossword puzzle



Across

5. The force that two surfaces exert on each other when they rub against each other is called ___.

9. A ___ causes a change in the object's motion.

11. The ___ of an object is the distance the object travels per unit of time.

12. ___ occurs when two solid surfaces slide over each other.

15. Newton's ___ states that an object at rest will remain at rest unless acted upon by a nonsero net force. An object moving at a constant velocity will continue moving at a constant velocity unless acted upon by a nonzero net force.

17. ___ is mathematically described in terms of displacement, distance, velocity, acceleration, speed, and time.

19. Resistance to change in motion is called ___.

20. ___ is a characteristic of a moving object that is related to the velocity of the object.

Down

1. ___ is defined as the vector measurement of the rate and direction of motion.

2. ___ is a measure of the force of gravity on an object.

3. ___ of action and reaction forces are all around you.

4. The law of ___ states that, in the absence of outside forces like friction, the total momentum of objects that interact does not change.

6. An object is in motion if it changes position relative to a.

7. Acceleration Scientists define ___ as the rate at which velocity changes.

8. Newton's ___ states that if one object exerts a force on another object, then the second object exerts a force of equal strength in the opposite direction on the first object.

10. Newton's ___ states that an object's acceleration depends on its mass and the net force acting on it.

13. A ___ is a push or pull.

14. ___ is a measure of the amount of matter in an object.

16. The combination of all the forces on an object is called the ___.

18. ___ is a force that pulls objects toward each other.

Word Bank

inertia	Mass	Motion	velocity
first law of motion	Force	second law of motion	acceleration
friction	third law of motion	speed	Momentum
Reference point	Action reaction pairs	Sliding friction	Net force
Gravity	conservation of momentum	0 net force	Weight