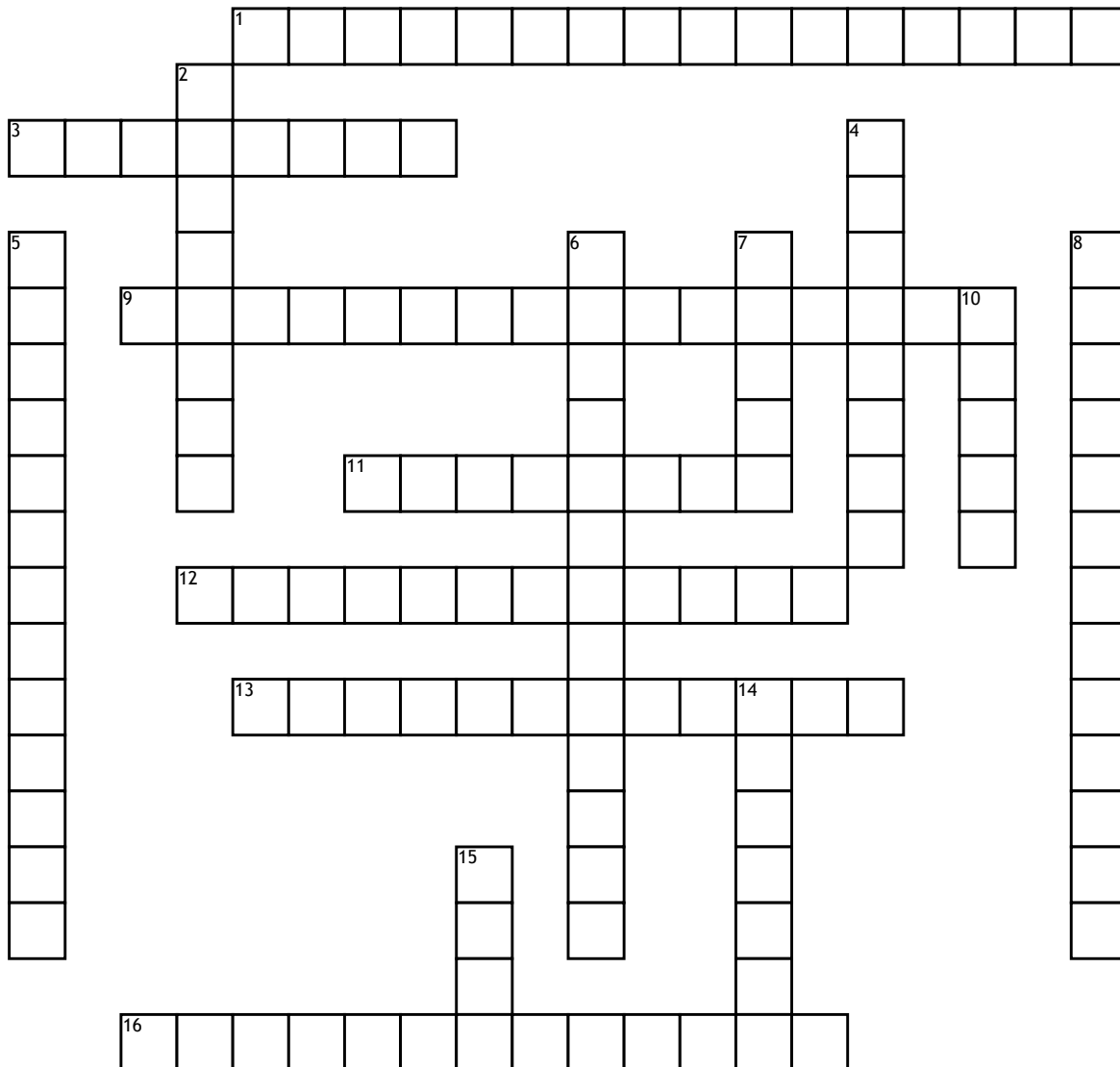


Name: _____

Date: _____

Motions & Forces Vocab.



Across

1. A law stating that any two masses attract each other with a force equal to a constant multiplied by the product of the two masses and divided by the square of the distance between them
 3. The speed of an object in a particular direction
 9. Forces that are not opposite in directions and equal in size
 11. The combination of all the forces acting on an object
 12. The total distance traveled divided by the total time elapsed
 13. The rate at which velocity changes over time, an object accelerates if its speed, direction or both changes

16. The acceleration of an object is produced by a net force is directly proportional to the magnitude of the net force, in the same direction as the net force, and inversely proportional to the mass of the object

Down

2. A quantity defined as the product of the physical and chemical properties of that substance
 4. A force that opposes motion between two surfaces that are in contact
 5. Two forces acting in opposite directions on an object, and equal in size
 6. A force is a push or a pull that acts upon an object as a result of its interaction with another object

7. A push or pull acted on an object in order to change the motion of the object
 8. An object at rest stays at rest and an object in motion stays in motion with the same speed and in the same direction unless acted upon by an unbalanced force
 10. The distance traveled divided by the time interval during which the motion occurred
 14. The tendency of an object to resist be moves or if the object is in motion to resist a change in speed or direction until an outside force acts on the object
 15. A measure of the amount of matter in an object