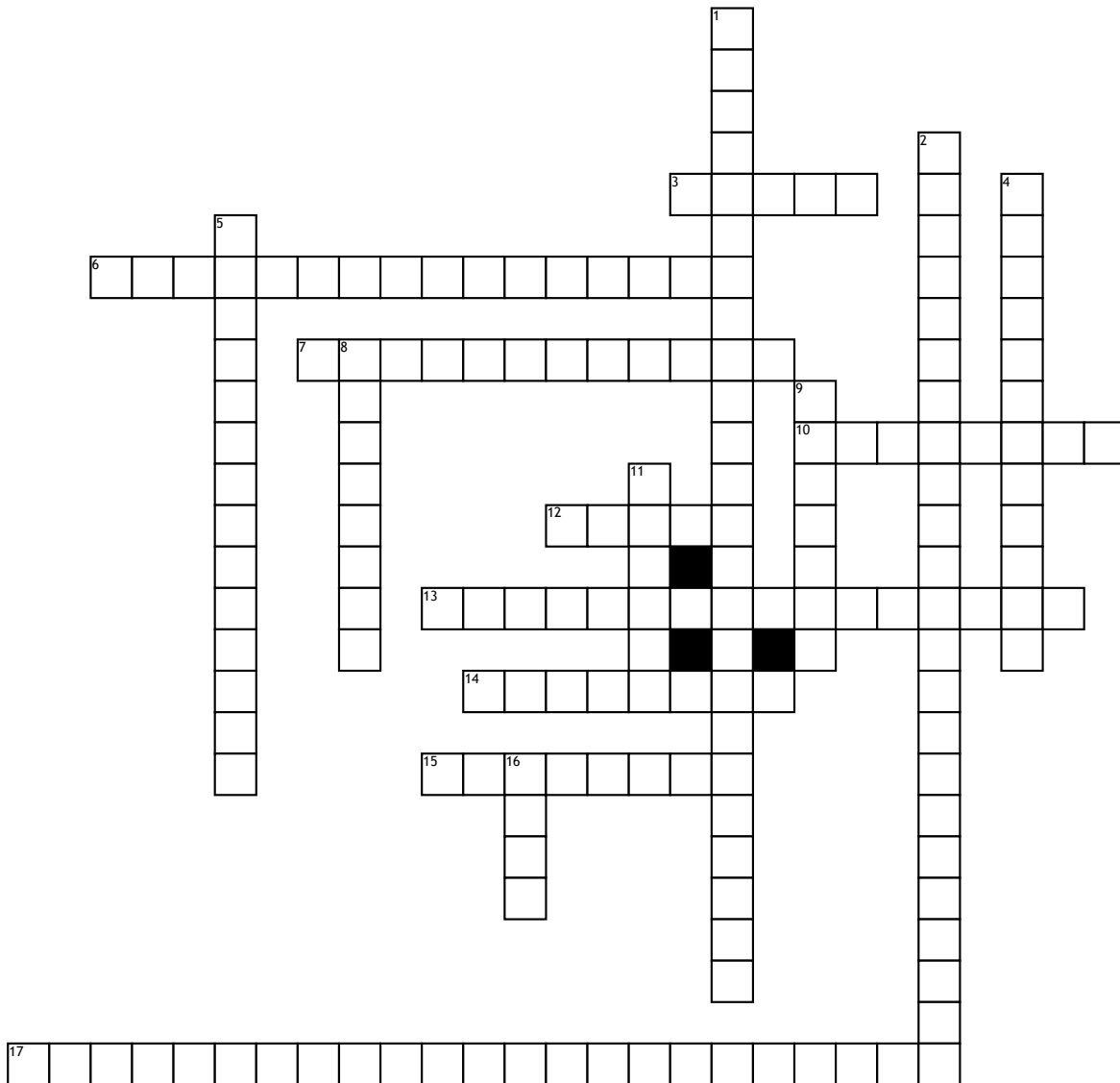


Name: \_\_\_\_\_

Date: \_\_\_\_\_

# Motion and Forces Vocabulary



## Across

3. Strength or energy as an attribute of physical action or movement.
6. Forces that cause a change in the motion of an object
7. Total distance traveled divided by the total time elapsed.
10. the sum of all the forces acting on an object.
12. distance traveled per unit of time.
13. the principle that two particles attract each other with forces directly proportional to the product of their masses divided by the square of the distance between them.

14. Resistance to motion of one object moving relative to another.

15. the property or tendency of a moving object to continue moving.

17. For every action, there is an equal and opposite reaction.

## Down

1. The acceleration of an object as 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.

2. states that an object at rest will stay at rest and an object in motion.

4. Rate of change of velocity.

5. Two forces acting in opposite directions on an object, and equal in size.

8. physical vector quantity; both magnitude and direction are needed to define it

9. a property of matter by which it continues in its existing state of rest or uniform motion in a straight line, unless that state is changed by an external force.

11. the force of gravity on the object

16. the property of matter that measures its resistance to acceleration.