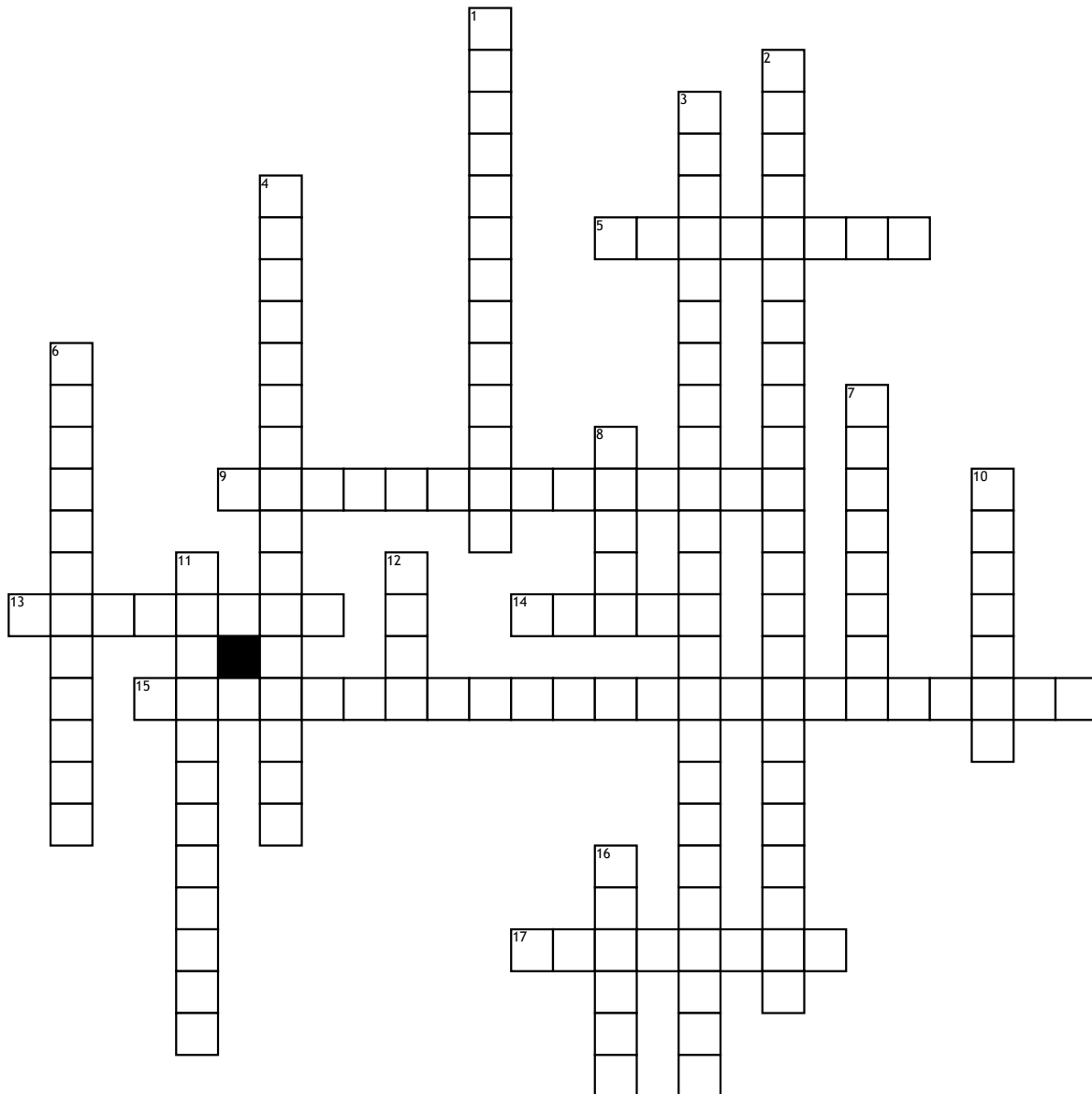


Name: _____

Date: _____

Motion and Forces Vocab.



Across

- 5. overall force acting on an object
- 9. does not cause a change in motion and are going opposite directions
- 13. the speed of something in a given direction
- 14. the rate at which someone or something is able to move
- 15. this law states forces always occur in pairs
- 17. the resistance that one surface or object encounters when moving over another

Down

- 1. a force that together can equal a certain number and will make a change of the objects motion
- 2. a body at rest tends to stay at rest, and a body in motion tends to stay in motion at a constant speed in a straight line, unless acted upon by a force
- 3. a body's rate of change of momentum is proportional to the force causing it
- 4. any two bodies attract each other with a force that is directly proportional to the product of their masses and inversely proportional to the square of the distance between them

- 6. the total distance traveled divided by the time it took to get to the end point
- 7. the quantity of motion of a moving body
- 8. strength or energy as an attribute of physical action or movement
- 10. a property of matter by which it continues in its existing state of rest or uniform motion in a straight line
- 11. the rate of change of velocity
- 12. It is a measure of an object's resistance to acceleration when force is applied
- 16. the force exerted on a body by gravity