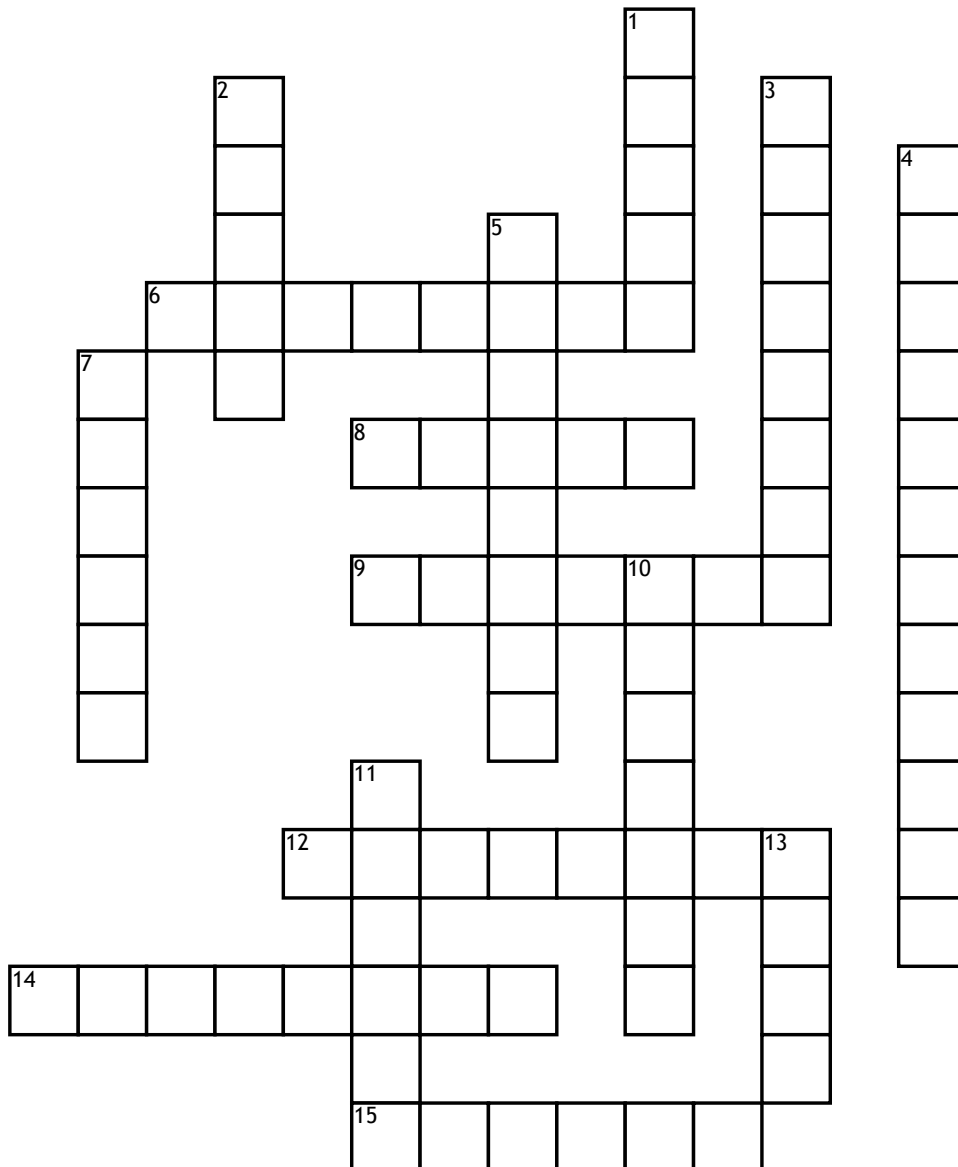


Name: _____

Physical Science Ty



Across

6. the combination of all of the forces acting on an object
8. the distance traveled divided by the time interval during which the motion occurred
9. a force of attraction between objects that is due to their masses
12. a quantity defined as the product of the mass and velocity of an object
14. a force that opposes motion between two surfaces that are in contact
15. the SI unit for force

Down

1. a push or a pull exerted on an object in order to change the motion if the object ;force has size and direction
2. the rate at which work is done or energy is transformed
3. the speed of an object in a particular direction
4. the rate at which velocity changes over time ;an object accelerates if its speed,direction,or both change
5. the motion of a body when only the force of gravity is acting on the body

7. a measure of the gravitational force exerted on an object;its value can change with the location of the object in the universe
10. the tendency of an object to resist being moved or,if the object is moving,to resist a change in speed or direction until an outside force acts on the objects
11. an object's change in position relative to a reference point
13. a measure of the amount of matter in an object