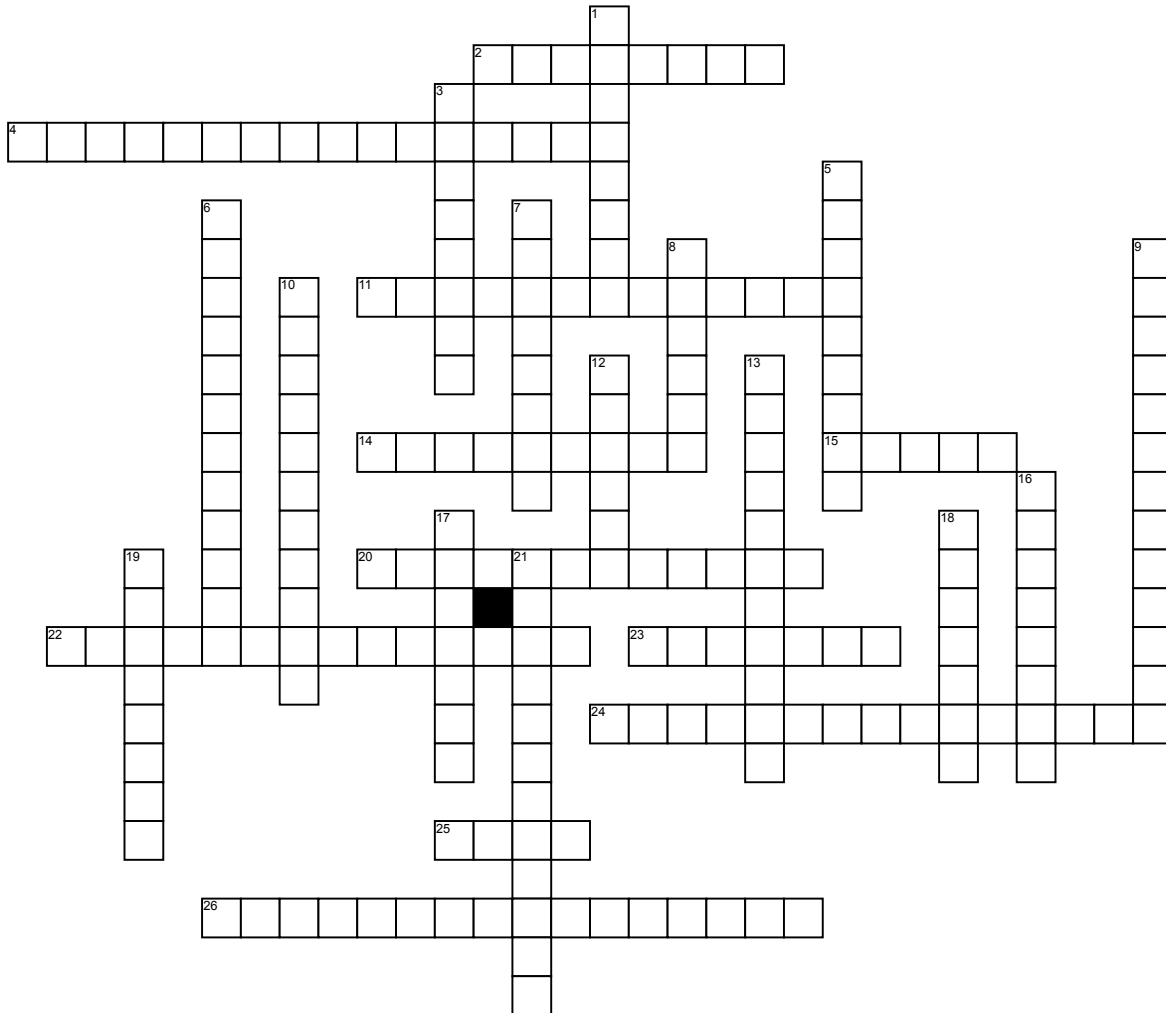


Name: _____

Force and Motion



Across

2. any interaction that, when unopposed, will change the motion of an object
4. a group of objects from which you can measure an object's position or motion
11. the object is supposed to cover equal distances in equal intervals of time
14. describes the movement of an object
15. the rate at which an object changes position
20. a force that acts at the point of contact between two objects
22. Do not cause a change in motion-when balanced forces act on an object at rest, the object will not move
23. the feel, appearance, or consistency of a surface or a substance
24. a force applied to an object by another body that is not in direct contact with it

25. a dimensionless quantity representing the amount of matter in a particle or object
26. Forces that cause a change in the motion of an object

Down

1. the product of mass multiplied by velocity
3. the resistance that one surface or object encounters when moving over another
5. a physical phenomenon produced by the motion of electric charge, resulting in attractive and repulsive forces between objects
6. increase of speed or velocity
7. the power to float or rise in a fluid
8. a change in the position of an object
9. a force that is caused by air that acts in the opposite direction to an object

10. The total area of the surface of a three-dimensional object
12. a system of units for expressing heaviness or mass
13. the process or technique employed to reduce friction between, and wear of one or both, surfaces in proximity and moving relative to each other
16. location of an object
17. the property of matter by which it retains its state of rest or its velocity along a straight line so long as it is not acted upon by an external force
18. the force that attracts a body toward the center of the earth, or toward any other physical body having mass
19. the speed and direction an object is moving
21. how far an object moves during a certain amount of time