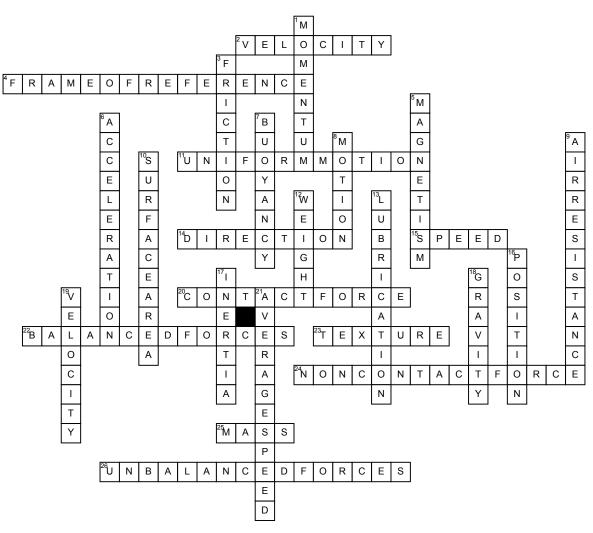
Force and Motion



Across

 any interaction that, when unopposed, will change the motion of an object
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 motionwhen 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 object26. Forces that cause a change in the motion of an object

<u>Down</u>

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