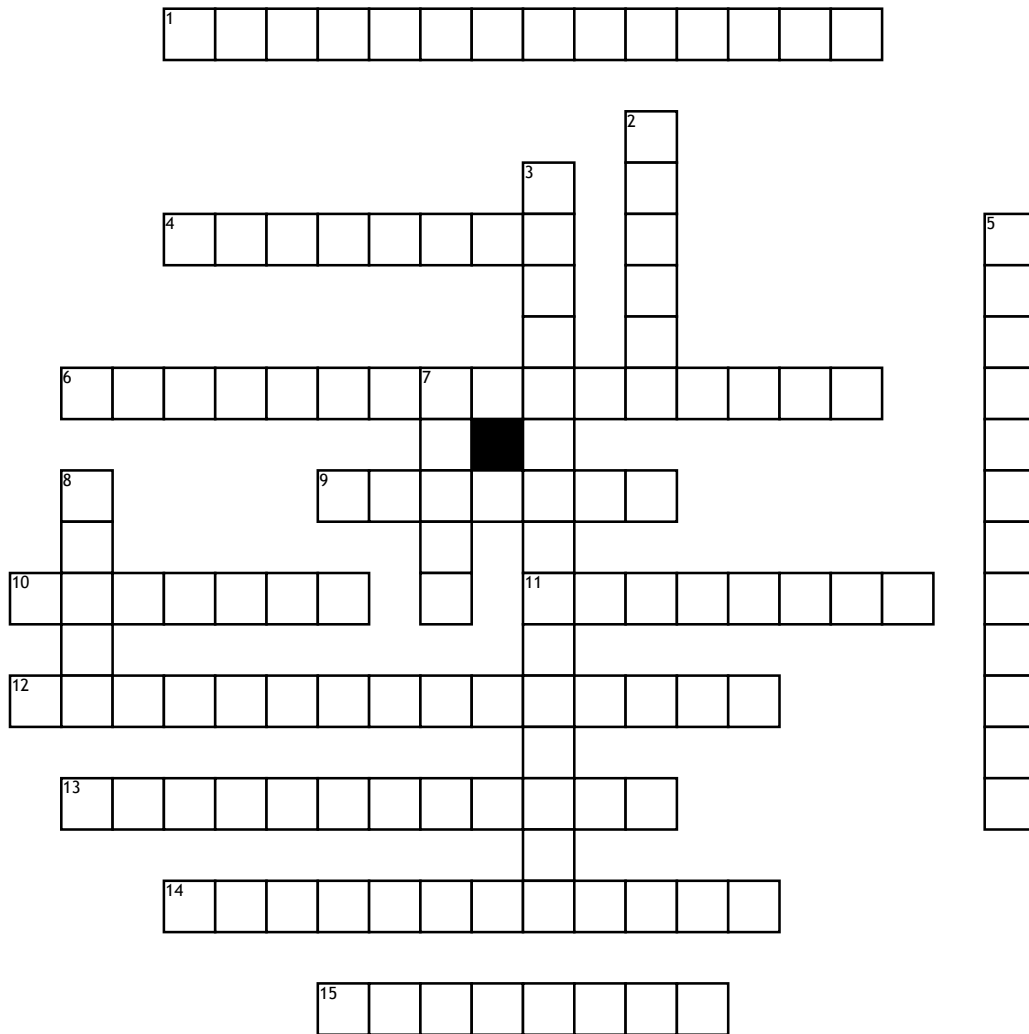


Force, Motion, and Acceleration



Across

1. Equal forces acting on an object in opposite directions
4. total of all forces acting on an object
6. force and acceleration together
9. An object at rest stays at rest and an object in motion stays in motion with the same speed and in the same direction unless acted upon by an unbalanced force.

10. the force that attracts a body toward the center of earth
11. when an object or surfaces rubs against another
12. For every action, there is an equal and opposite reaction.
13. $s=d/t$
14. change in direction or velocity of an object over time
15. speed and direction

Down

2. an object changes in position

3. $v=d/t + \text{direction}$

5. total distance divide by total time
7. the distance an object travels in a certain amount of time
8. a push or pull measured in newtons acts in pairs

Word Bank

motion	balanced forces	velocity formula	acceleration
newtons second law	inertia	speed formula	velocity
friction	gravity	force	Newton's Third Law
net force	average speed	speed	