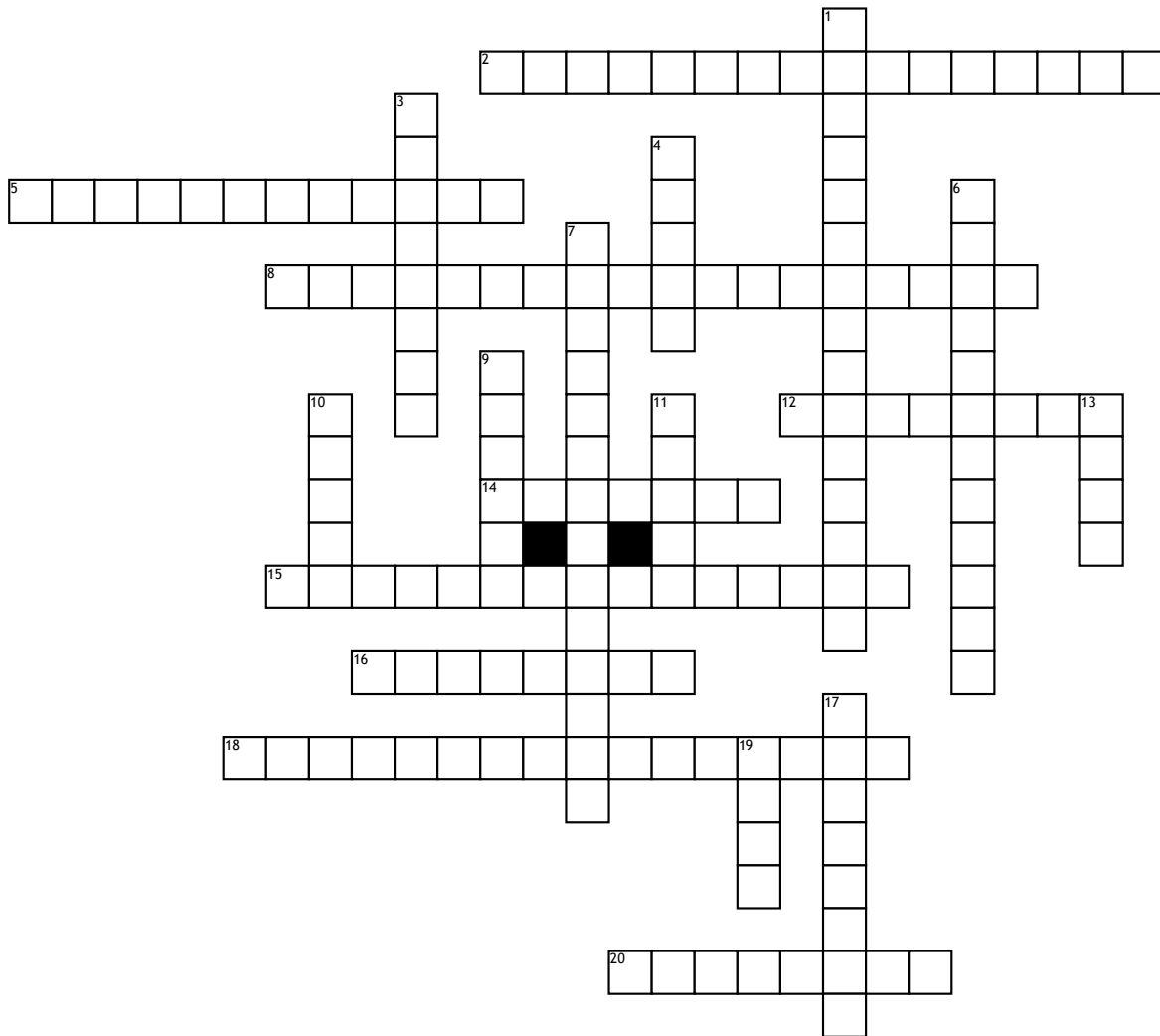


Motion Crossword



Across

2. the relationship between an object's mass, m its acceleration, a and the applied force, F is $F = ma$
 5. speeding up, slowing down, or changing direction
 8. the speed of an object in one instant of time
 12. SI unit for mass
 14. the tendency in an object to resist change in motion
 15. an object in motion stays in motion until acted upon by an outside unbalanced force, and an object at rest will stay at rest until acted upon by an outside unbalanced force

16. a combination of all forces acting on an object
 18. two forces exerted on an object who's effects do not cancel each other out, therefore accelerating the object
 20. how hard it is to stop an object

Down

1. for every action there is an equal and opposite reaction
 3. an opposite force that acts on two objects touching
 4. how fast an object is moving
 6. total difference traveled divided by the total amount of time taken to travel the distance

7. two or more forces acting on an object who's effects cancel each other out
 9. the movement of an object
 10. a push or pull
 11. SI unit for length
 13. the amount of matter in an object
 17. the speed and direction of an object
 19. the amount of change in a measurement in a given amount of time