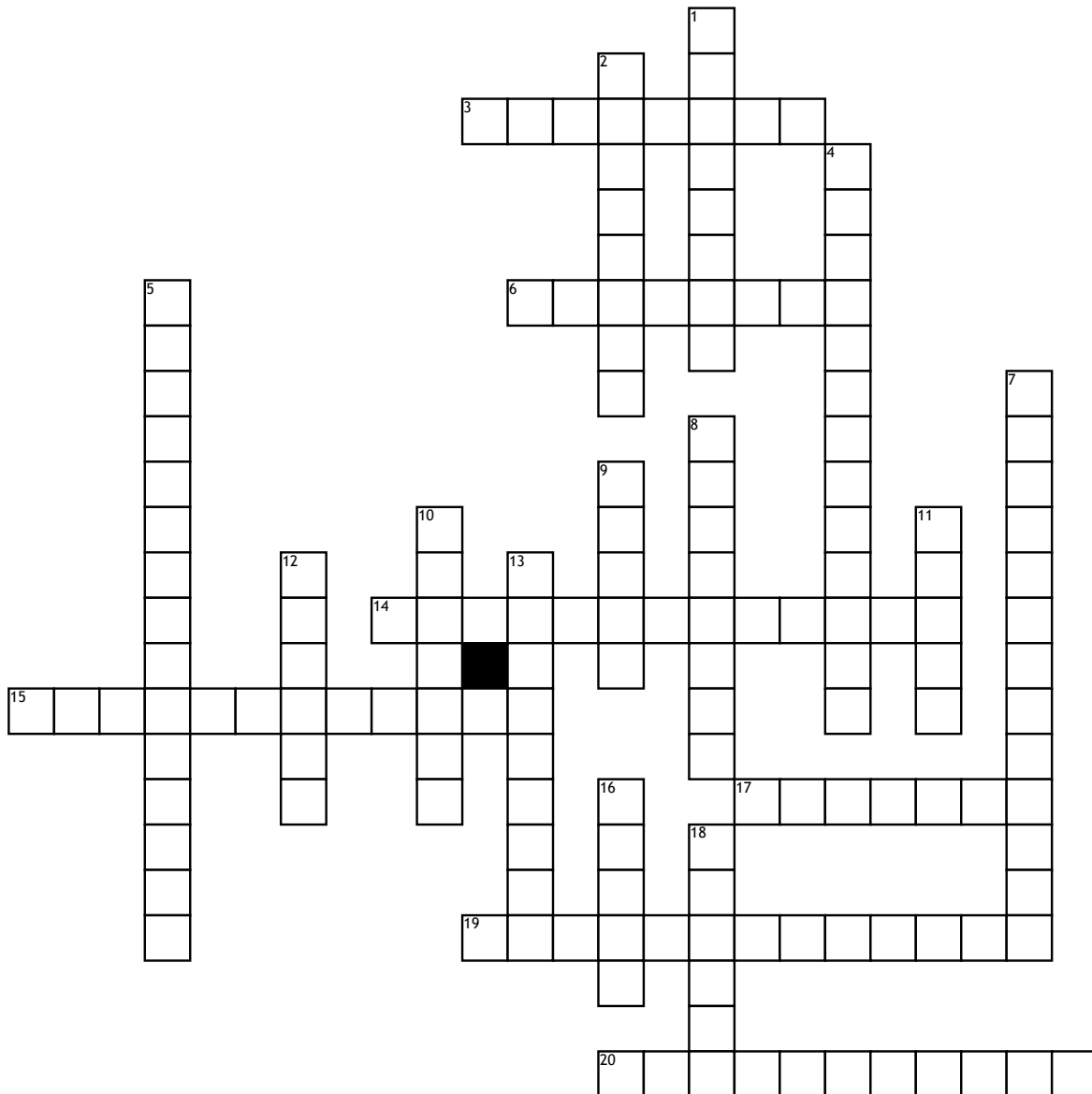


# Newton's Laws of Motion



## Across

3. Distance per Time with Direction  
 6. The overall force exerted on an object  
 14. The overall force has zero force on an object  
 15. Change in Speed per Time  
 17. An object at rest stays at rest and an object in motion stays in motion unless acted upon by an outside force  
 19. The name often given to the force exerted by the second object back on the first object

20. The name often given to the force exerted by the first object on a second object

## Down

1. The force that one surface exerts on another when the two surfaces rub against each other  
 2. Mass times Speed  
 4. Energy that an object has due to its motion  
 5. Stored energy that results from the position or shape of an object  
 7. The force of air pushing against a moving object.

8. For every action there is an equal and opposite reaction.

9. A push or pull  
 10. The pull of one object on another object  
 11. Distance per Time  
 12. The ability to produce change  
 13. A number that tells how much of something there is.  
 16. Mass times Acceleration  
 18. The unit measuring the affects gravity has on mass