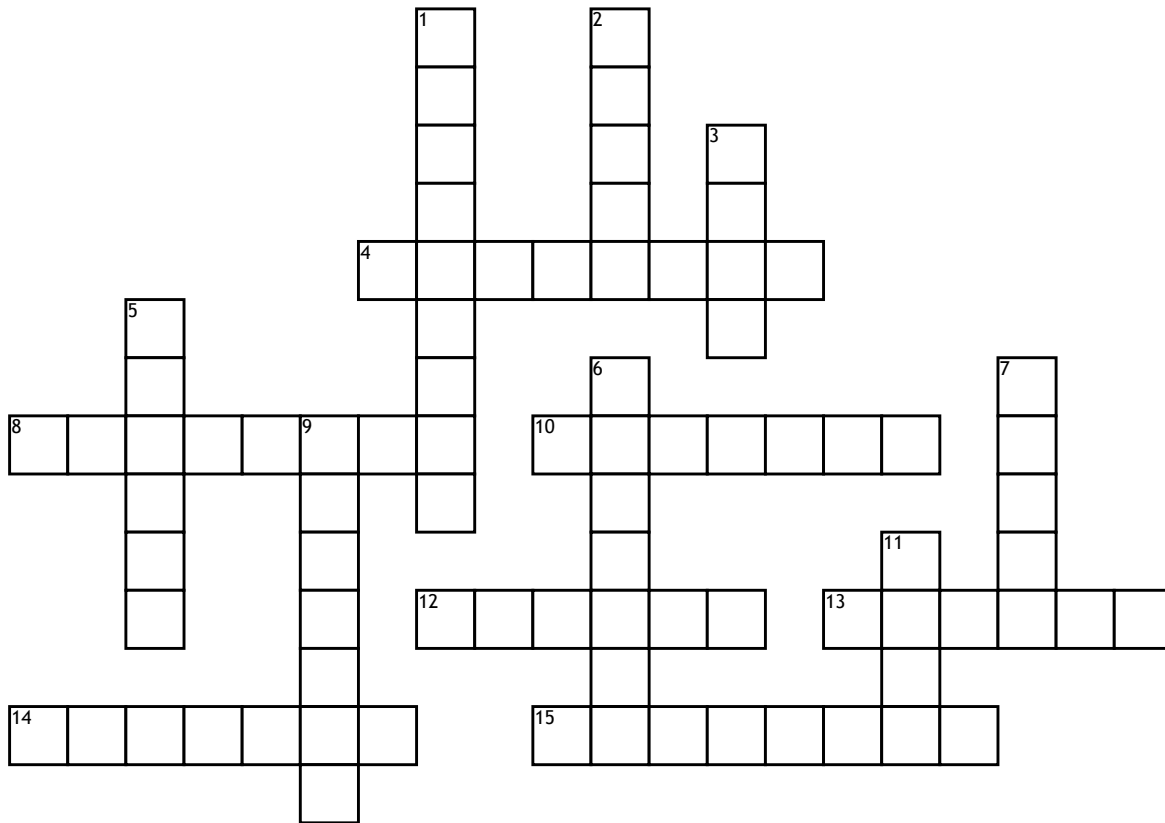


# Newton's Laws Crossword Puzzle



## Across

4. If the mass of an object remains the same, its acceleration will \_\_\_\_\_ as the force applied to it decreases.
8. For every action, there is an equal and opposite \_\_\_\_\_.
10. The force that pushes objects toward the surface of the earth is called \_\_\_\_\_.
12. Force is a \_\_\_\_\_ quantity.
13. The standard unit for force is called a \_\_\_\_\_.
14. The force that opposes motion once the motion has already started is called \_\_\_\_\_ friction.

15. The force that opposes motion when two surfaces are touching.

## Down

1. The equal and opposite forces described by Newton's 3rd Law of Motion must act on \_\_\_\_\_ objects.
2. According to Newton's 2nd Law of Motion, the mass of an object multiplied by its acceleration equals the total \_\_\_\_\_ being applied to it.
3. An object has more inertia than another object if it has more \_\_\_\_\_.
5. The force that opposes the initiation of motion is called \_\_\_\_\_ friction.
6. The force of static friction is \_\_\_\_\_ than the force of kinetic friction.
7. Newton's \_\_\_\_\_ Law of Motion states that an object in motion will stay in motion and an object at rest will stay at rest unless acted upon by an outside force.
9. The tendency of an object to resist changes in its velocity is called \_\_\_\_\_.
11. When the velocity of a moving object stays the same, it has an acceleration of \_\_\_\_\_.