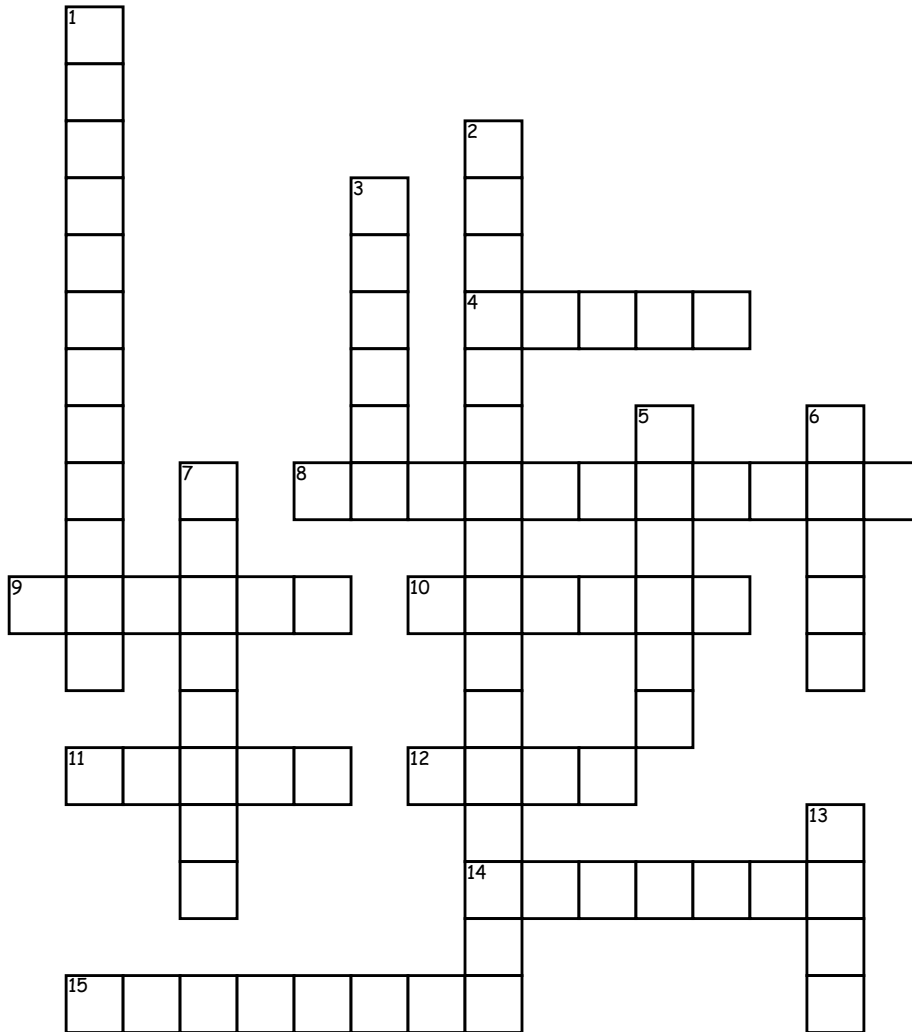


# Newton's Laws of Motion



## Across

4. It can be found with the distance covered over time

8. English mathematician and physicist who came up with the three laws of motion

9. Work is measured in

10. A change in an object's position

11. Newton's \_\_\_\_\_ law of motion states that every action has an equal but opposite reaction

12. When a force is applied to an object and the object moves you have done

14. Newton's first law is known as the law of \_\_\_\_\_

15. The resistance that one object encounters when moving over another

## Down

1. The distance an object travels per unit of time

2. Which law states that an object in motion stays in motion and an object at rest stays at rest, unless acted on by an unbalanced force.

3. Distance is measured in \_\_\_\_\_

5. When an object with greater mass accelerates less in Newton's \_\_\_\_\_ law.

6. 2. Newton's second law of motion can also be shown using the formula \_\_\_\_\_=mass x acceleration

7. Inertia is an objects resistance to change its \_\_\_\_\_

13. The greater the \_\_\_\_\_ of an object the greater the inertia

## Word Bank

Velocity

Inertia

force

Third

Isaac Newton

Speed

Second

Mass

Meters

Motion

Joules

Work

Friction

First Law of Motion

Acceleration