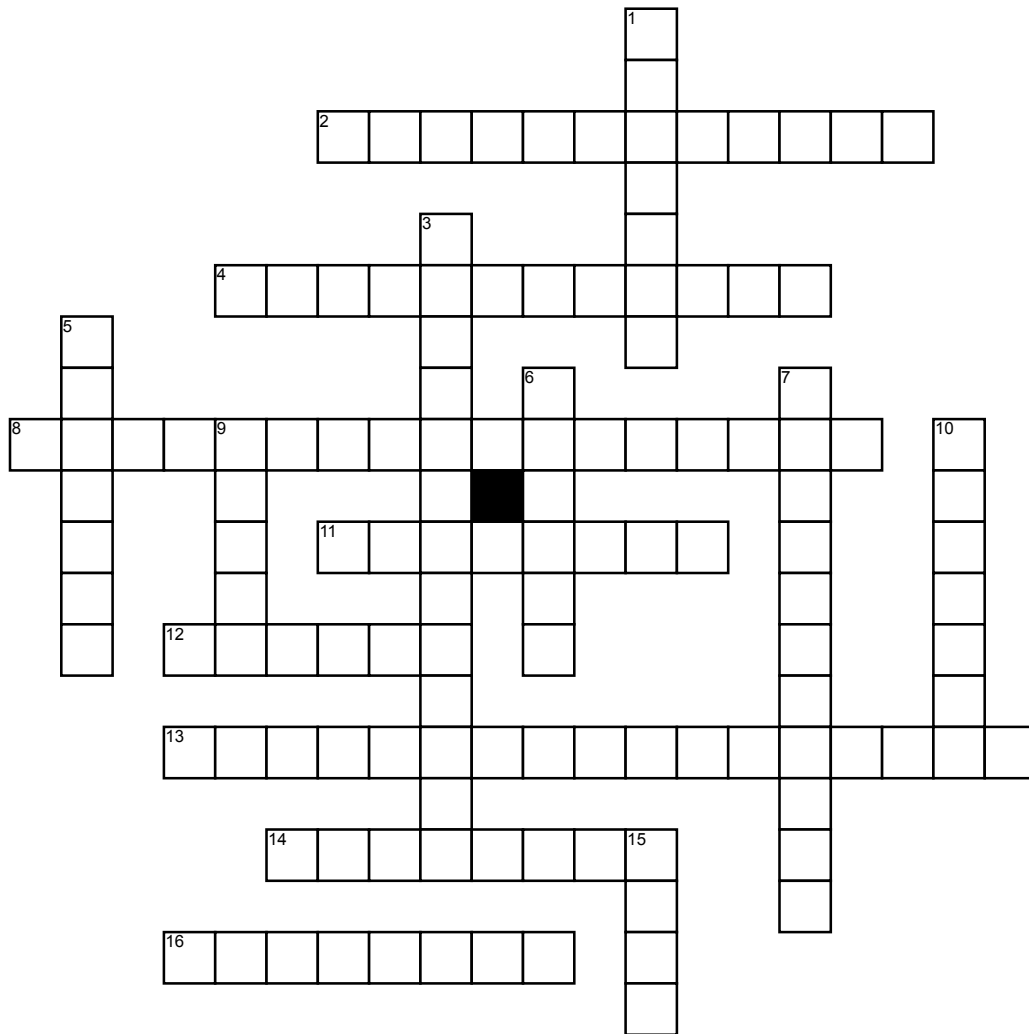


Name: \_\_\_\_\_

# Newton's Laws of Motion Vocab



## Across

2. every object continues in a state of rest or of uniform speed in a straight line unless acted on by a nonzero net force  
4. is a force that is exerted on an object by another person or another object or force  
8. the acceleration of an object is directly proportional to the net force acting on the object, is in the direction of the net force, and is inversely proportional to the mass of the object  
11. opposing force that goes against motion

12. force caused by gravity due to its mass

13. whenever one object exerts a force on a second object, the second object exerts an equal and opposite force on the first

14. product of the mass of an object and it's velocity

16. SI unit of mass= 1000 g's; one kg is the mass of 1L

## Down

1. stretching force

3. type of friction caused by air

5. pull of an object on any other object

6. SI unit of force. One N is the force that will give an object of mass 1 kg an acceleration of 1 m/s<sup>2</sup>

7. upward supportive force

9. any push or pull exerted on an object, measured in Newtons

10. property of things to resist changes in motion

15. scalar quantity of matter in an object

## Word Bank

Applied Force

Newton

Normal Force

Law of Acceleration

Force

Kilogram

Mass

Gravity

Friction

Law of Inertia

Weight

Momentum

Tension

Inertia

Action-Reaction Law

Air Resistance