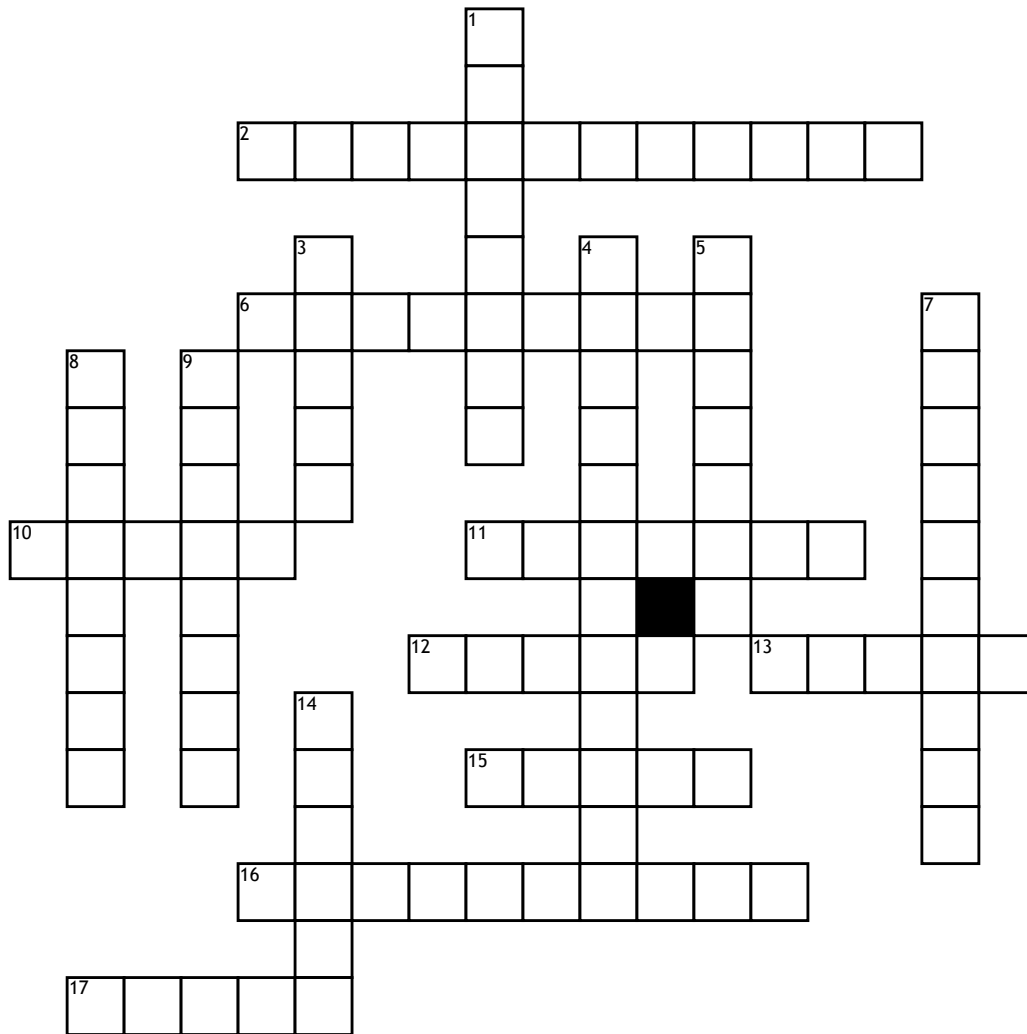


# Newton's Laws of Motion



## Across

2. a change in speed or direction  
 6. an object can accelerate when either velocity or \_\_\_\_\_ changes  
 10. This is a push or a pull on an object. The unit for this is newtons.  
 11. a force of attraction between two masses; it pulls objects towards the centre of the earth.  
 12. Forces in the same direction are \_\_\_\_\_ together to find the resultant force.  
 13. a push or pull on an object

## Word Bank

added	inertia	balanced	subtracted	friction
displacement	second	acceleration	speed	force
force	first	third	noncontact	gravity
direction	Velocity			

15. How much distance is covered in a certain amount of time

16. A \_\_\_\_\_ force acts between two masses that are some distance apart.

17. Newton's \_\_\_\_\_ law is also known as the action/ reaction law.

## Down

1. \_\_\_\_\_ forces do NOT cause a change in motion on an object.

3. Newton's \_\_\_\_\_ law is evident when you're riding in a car without a seatbelt and the car stops suddenly. (you continue to move forward.)

4. distance in a given direction

5. This is an object's resistance to a change in the speed or directions of its motion.

7. Forces in opposite directions are \_\_\_\_\_ to find the resultant force.

8. Speed in a given direction

9. a force that acts to resist motion between two touching surfaces

14. Newton's \_\_\_\_\_ law shows the relationship between an object's mass, force and acceleration. It can also be written as Force=Mass x Acceleration.